

=> d his

(FILE 'HOME' ENTERED AT 14:39:49 ON 18 SEP 2002)

FILE 'REGISTRY' ENTERED AT 14:39:57 ON 18 SEP 2002

L1 STRUCTURE UPLOADED
L2 1027 S L1 FUL
L3 798 S L2 AND CAPLUS/LC
L4 STRUCTURE UPLOADED
L5 202 S L4 FUL SUB=L2
L6 164 S L5 AND CAPLUS/LC

FILE 'CAPLUS' ENTERED AT 14:46:16 ON 18 SEP 2002

L7 18 S L6 FUL

FILE 'REGISTRY' ENTERED AT 14:47:42 ON 18 SEP 2002

L8 634 S L3 NOT L6
L9 STRUCTURE UPLOADED
L10 609 S L9 FUL

=> s l10 and caplus/lc

24503186 CAPLUS/LC
L11 431 L10 AND CAPLUS/LC

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	161.60	426.73
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-11.15

FILE 'CAPLUS' ENTERED AT 14:50:29 ON 18 SEP 2002

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FILE COVERS 1907 - 18 Sep 2002 VOL 137 ISS 12

FILE LAST UPDATED: 17 Sep 2002 (20020917/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s py>2000

L12 1648093 PY>2000

=> s l11 not py>2000

107 L11

1648093 PY>2000

L13 99 L11 NOT PY>2000

=> d 1-99 ibib abs hitstr

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	441.33	868.06
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-61.33	-72.48

STN INTERNATIONAL LOGOFF AT 14:56:03 ON 18 SEP 2002

=> d his

(FILE 'HOME' ENTERED AT 14:39:49 ON 18 SEP 2002)

FILE 'REGISTRY' ENTERED AT 14:39:57 ON 18 SEP 2002
L1 STRUCTURE UPLOADED
L2 1027 S L1 FUL
L3 798 S L2 AND CAPLUS/LC
L4 STRUCTURE UPLOADED
L5 202 S L4 FUL SUB=L2
L6 164 S L5 AND CAPLUS/LC

FILE 'CAPLUS' ENTERED AT 14:46:16 ON 18 SEP 2002
L7 18 S L6 FUL

FILE 'REGISTRY' ENTERED AT 14:47:42 ON 18 SEP 2002
L8 634 S L3 NOT L6

=>

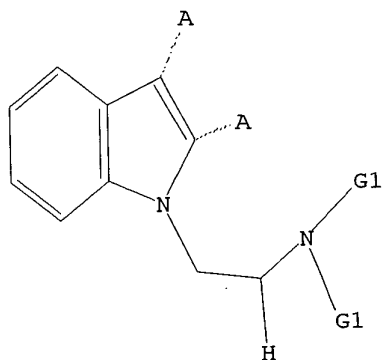
Uploading 10009568.str

L9 STRUCTURE UPLOADED

=> d

L9 HAS NO ANSWERS

L9 STR



G1 H,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l9 ful

FULL SEARCH INITIATED 14:49:47 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 67804 TO ITERATE

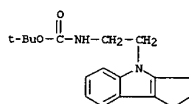
100.0% PROCESSED 67804 ITERATIONS
SEARCH TIME: 00.00.12

609 ANSWERS

L10 609 SEA SSS FUL L9

=> d 1-5

L8 ANSWER 1 OF 634 REGISTRY COPYRIGHT 2002 ACS
 RN 433333-63-2 REGISTRY
 CN Carbamic acid, [2-(2,3-dihydrocyclopent[b]indol-4(1H)-yl)ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H24 N2 O2
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER



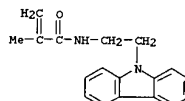
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L8 ANSWER 2 OF 634 REGISTRY COPYRIGHT 2002 ACS
 RN 410523-28-3 REGISTRY
 CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, monosodium salt, polymer with N-[2-(9H-carbazol-9-yl)ethyl]-2-methyl-2-propenamide (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 2-(3-Carbazolyl)ethylmethacrylamide-sodium 2-acrylamido-2-methylpropanesulfonate copolymer
 MF (C18 H18 N2 O . C7 H13 N O4 S . Na)x
 CI FMS
 PCT Polyacrylic
 SR CA
 LC STN Files: CA, CAPLUS

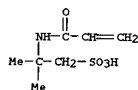
CM 1

CRN 410523-27-2
 CMF C18 H18 N2 O



CM 2

CRN 5165-97-9 (15214-89-8)
 CMF C7 H13 N O4 S . Na

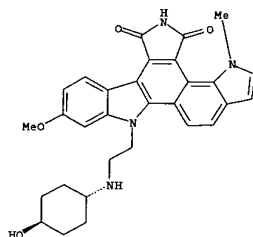


● Na

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

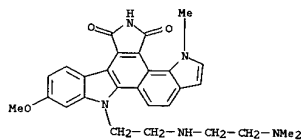
L8 ANSWER 3 OF 634 REGISTRY COPYRIGHT 2002 ACS
 RN 408355-59-9 REGISTRY
 CN 3H-Indolo[6,7-a]pyrrolo[3,4-c]carbazole-4,6(5H,11H)-dione, 11-[2-[(trans-4-hydroxycyclohexyl)amino]ethyl]-9-methoxy-3-methyl- (9CI) (CA INDEX NAME)
 FS STEREORESEARCH
 MF C30 H30 N4 O4
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



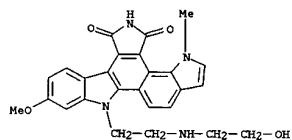
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L8 ANSWER 4 OF 634 REGISTRY COPYRIGHT 2002 ACS
 RN 408355-58-8 REGISTRY
 CN 3H-Indolo[6,7-a]pyrrolo[3,4-c]carbazole-4,6(5H,11H)-dione, 11-[2-[[2-(dimethylamino)ethyl]amino]ethyl]-9-methoxy-3-methyl- (9CI) (CA INDEX NAME)
 MF C28 H29 N5 O3
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER



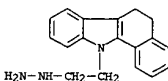
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L8 ANSWER 5 OF 634 REGISTRY COPYRIGHT 2002 ACS
RN 408355-57-7 REGISTRY
CN 3H-Indolo[6,7-a]pyrrolo[3,4-c]carbazole-4,6(5H,11H)-dione,
11-[2-[(2-hydroxyethyl)amino]ethyl]-9-methoxy-3-methyl- (9CI) (CA
INDEX
NAME)
MF C26 H24 N4 O4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

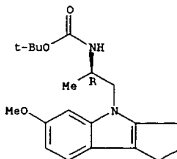
L10 ANSWER 1 OF 609 REGISTRY COPYRIGHT 2002 ACS
 RN 446278-56-4 REGISTRY
 CN 5H-Benzo[a]carbazole, 11-(2-hydrazinoethyl)-6,11-dihydro- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H19 N3
 SR Chemical Library



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 2 OF 609 REGISTRY COPYRIGHT 2002 ACS
 RN 433333-70-1 REGISTRY
 CN Carbamic acid, [(1R)-2-(2,3-dihydro-6-methoxycyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C20 H28 N2 O3
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.

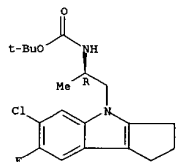


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L10 ANSWER 3 OF 609 REGISTRY COPYRIGHT 2002 ACS
 RN 433333-69-8 REGISTRY
 CN Carbamic acid, [(1R)-2-(6-chloro-7-fluoro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C19 H24 Cl F N2 O2
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER

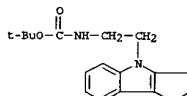
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

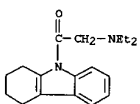
L10 ANSWER 4 OF 609 REGISTRY COPYRIGHT 2002 ACS
 RN 433333-63-2 REGISTRY
 CN Carbamic acid, [2-(2,3-dihydrocyclopent[b]indol-4(1H)-yl)ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H24 N2 O2
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L10 ANSWER 5 OF 609 REGISTRY COPYRIGHT 2002 ACS
RN 420100-12-5 REGISTRY
CN 1H-Carbazole, 3-[(diethylamino)acetyl]-2,3,4,9-tetrahydro- (9CI) (CA
INDEX NAME)
FS 3D CONCORD
MF C18 H24 N2 O
SR Chemical Library

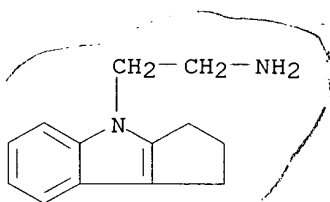


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 ANSWER 66 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1972:448236 CAPLUS
 DOCUMENT NUMBER: 77:48236
 TITLE: Indole-1-alkylamine derivatives
 INVENTOR(S): Okamoto, Tadashi; Kobayashi, Tsuyoshi; Yamamoto, Hisao
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd.
 SOURCE: Jpn. Tokkyo Koho, 2 pp.
 CODEN: JAXXAD
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 47013661	B4	19720424	JP 1968-87469	19681128

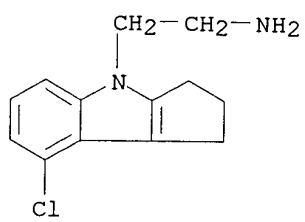
GI For diagram(s), see printed CA Issue.
 AB The title compds. (I), acting on the central nervous system, were prepd. by reducing the corresponding indole-1-fatty acid amide. E.g., 3.5 g 1-cyclopent[b]indolylacetamide in THF was refluxed with LiAlH₄ and treated with HCl to give 3 g I.HCl (X = H). Similarly prepd. was I (X = Cl).
 IT **36856-42-5P 36856-43-6P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 36856-42-5 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 2,3-dihydro-, monohydrochloride (9CI)
 (CA INDEX NAME)



● HCl

Amine
 $(CH_2)_{m-1}$ CH_2 v. CH_2

RN 36856-43-6 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 8-chloro-2,3-dihydro- (9CI) (CA INDEX NAME)



Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:sssptal626amd

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and
IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and
ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA

NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:39:49 ON 18 SEP 2002

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 14:39:57 ON 18 SEP 2002

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 17 SEP 2002 HIGHEST RN 452274-20-3

DICTIONARY FILE UPDATES: 17 SEP 2002 HIGHEST RN 452274-20-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

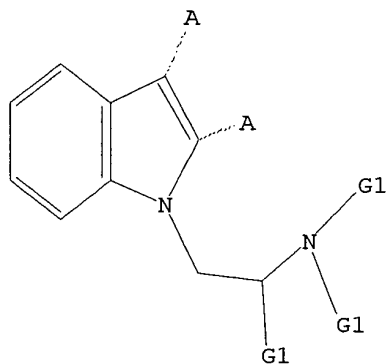
Uploading 10009568.str

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 H,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful

FULL SEARCH INITIATED 14:40:12 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 140033 TO ITERATE

100.0% PROCESSED 140033 ITERATIONS

1027 ANSWERS

SEARCH TIME: 00.00.13

L2 1027 SEA SSS FUL L1

=> s l2 and caplus/lc

24503186 CAPLUS/LC

L3 798 L2 AND CAPLUS/LC

=>

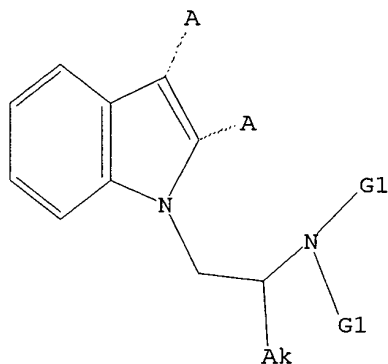
Uploading 10009568.str

L4 STRUCTURE UPLOADED

=> d

L4 HAS NO ANSWERS

L4 STR



G1 H,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l4 subset=l2 ful

FULL SUBSET SEARCH INITIATED 14:41:28 FILE 'REGISTRY'

FULL SUBSET SCREEN SEARCH COMPLETED - 1027 TO ITERATE

100.0% PROCESSED 1027 ITERATIONS

202 ANSWERS

SEARCH TIME: 00.00.01

L5 202 SEA SUB=L2 SSS FUL L4

=> s l5 and caplus/lc

24503186 CAPLUS/LC

L6 164 L5 AND CAPLUS/LC

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

185.13

185.34

FILE 'CAPLUS' ENTERED AT 14:46:16 ON 18 SEP 2002

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 18 Sep 2002 VOL 137 ISS 12

FILE LAST UPDATED: 17 Sep 2002 (20020917/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

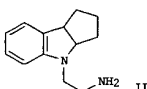
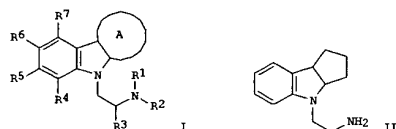
=> s l6 ful

L7 18 L6

=> d 1-18 ibib abs hitstr

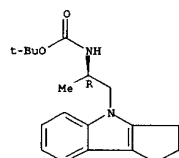
L7 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2002:428881 CAPLUS
 DOCUMENT NUMBER: 137:6087
 TITLE: Preparation of indoline derivatives as 5-HT2 receptor
 INVENTOR(S): Bentley, Jonathan Mark; Davidson, James Edward Paul;
 Mansell, Howard Langham Monck, Nathaniel Julius Thomas
 PATENT ASSIGNEE(S): F. Hoffmann-La Roche Ag, Switz.; Vernalis Research
 SOURCE: Limited PCT Int. Appl., 55 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044152	A1	20020606	WO 2001-EP11814	20011012
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.: EF 2000-122539 A 20001016				
OTHER SOURCE(S): MARPAT 137:6087				
GI				



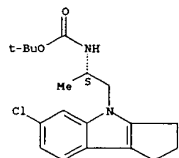
L7 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
 AB Title compds. I [R1-2 = H, alkyl, alkenyl, alkynyl, cycloalkyl; R3 = alkyl, alkenyl, alkynyl, cycloalkyl; R4-7 = H, alkyl, alkenyl, alkynyl, cycloalkyl, halogen, haloalkyl, hydroxy, aryl, amino, mono- and dialkylamino, alkoxy, cycloalkyloxy, aryloxy, heteroaryloxy, alkylthio, alkylsulfonyl, alkylsulfonyle, nitro, cyano, alkoxy, carbonyl, aryloxy, carbonyl, heteroaryloxy, carbonyl, heteroaryl, alkyl, carbonylamino, aryl, carbonylamino, heteroaryl, carbonylamino, carboxy; A = a 5 or 6 membered (un)satd. carbocyclic, heterocyclic ring, wherein the two atoms of the indoline ring to which ring A is fused form a satd. C-C single bond] were prepd. For instance, 2-[1,2,3,4-tetrahydrocyclopent[b]indol-4-yl]ethylamine.bul.HCl prepn. given was protected as the tert-butoxycarbonyl deriv., reduced (HOAc, NaCNBH3) and deprotected (MeOH, HCl) to give II isolated as the fumarate salt. In one assay, selected example compds. tested had. Ki = 88 - 318 nM for the 5-HT2A receptor.
 I are useful for the prevention and treatment of disorders of the central nervous system, damage to the central nervous system, cardiovascular disorders, gastrointestinal disorders, diabetes, sleep apnea, and for the treatment and prevention of obesity.
 IT 327022-13-9P 327022-17-3P 327022-22-0P 327022-25-3P 327022-27-5P 327022-44-6P 327022-45-7P 327022-46-8P 327022-47-9P 327022-49-1P 327022-51-5P 433333-69-8P 433333-70-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (intermediate) prepn. of indoline derivs. as 5-HT2 receptor ligands)
 RN 327022-13-9 CAPLUS
 CN Carbamic acid, [(1R)-2-(2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

L7 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



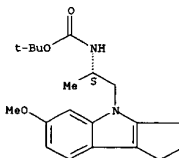
RN 327022-17-3 CAPLUS
 CN Carbamic acid, [(1S)-2-(6-chloro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 327022-22-0 CAPLUS
 CN Carbamic acid, [(1S)-2-(2,3-dihydro-6-methoxycyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

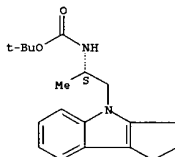
Absolute stereochemistry.



L7 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

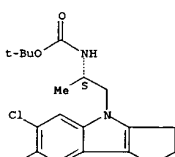
RN 327022-25-3 CAPLUS
 CN Carbamic acid, [(1S)-2-(2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



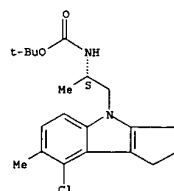
RN 327022-27-5 CAPLUS
 CN Carbamic acid, [(1S)-2-(6-chloro-7-fluoro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



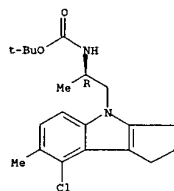
RN 327022-44-6 CAPLUS
 CN Carbamic acid, [(1S)-2-(8-chloro-2,3-dihydro-7-methylcyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



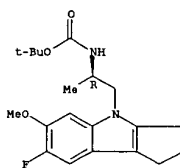
RN 327022-45-7 CAPLUS
CN Carbamic acid,
[(1R)-2-(8-chloro-2,3-dihydro-7-methylcyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



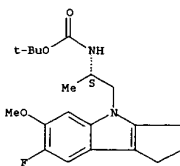
RN 327022-46-8 CAPLUS
CN Carbamic acid,
[(1R)-2-(7-fluoro-2,3-dihydro-6-methoxycyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



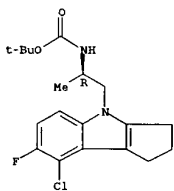
RN 327022-47-9 CAPLUS
CN Carbamic acid,
[(1S)-2-(7-fluoro-2,3-dihydro-6-methoxycyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



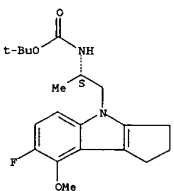
RN 327022-49-1 CAPLUS
CN Carbamic acid,
[(1R)-2-(8-chloro-7-fluoro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



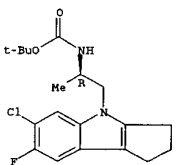
RN 327022-51-5 CAPLUS
CN Carbamic acid,
[(1S)-2-(7-fluoro-2,3-dihydro-8-methoxycyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



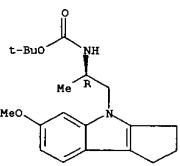
RN 433333-69-8 CAPLUS
CN Carbamic acid,
[(1R)-2-(6-chloro-7-fluoro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 433333-70-1 CAPLUS
CN Carbamic acid,
[(1R)-2-(2,3-dihydro-6-methoxycyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

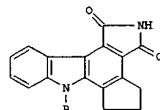
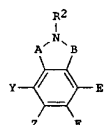


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

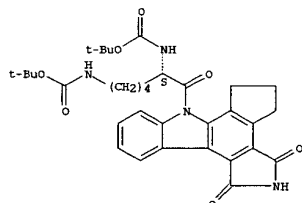
L7 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:833276 CAPLUS
DOCUMENT NUMBER: 135:371989
TITLE: Preparation of novel multicyclic compounds and
their amino acid derivatives as inhibitors of enzymes
such as poly(ADP-ribose) polymerase
INVENTOR(S): Ator, Mark A.; Bihovsky, Ron; Chatterjee, Sankar;
Dunn, Derek; Hudkins, Robert L.
PATENT ASSIGNEE(S): Cephalon, Inc., USA
SOURCE: PCT Int. Appl., 209 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001085686	A2	20011115	WO 2001-US14996	20010509
WO 2001085686	A3	20020530		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
US 2002028815 A1 20020307 US 2001-850858 20010508
PRIORITY APPLN. INFO.: US 2000-202947P P 20000509
OTHER SOURCE(S): MARPAT 135:371989
G1



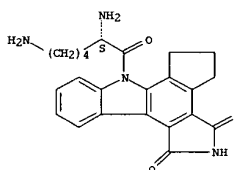
L7 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
(Reactant or reagent); USES (Uses)
(prepn. of novel multicyclic compds. and their amino acid derivs.)
as inhibitors of enzymes for treatment of diseases related to
enzymes such as poly(ADP-ribose) polymerase, VEGFR2 kinase, and MLK3 kinase)
RN 374069-19-9 CAPLUS
CN Carbamic acid, [(1S)-1-[(1,2,3,4,5,6-hexahydro-1,3-dioxo-7H-
cyclopenta[a]pyrrolo[3,4-c]carbazol-7-yl)carbonyl]-1,5-pentanediy]bis-,
bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)
Absolute stereochemistry.



IT 374069-09-7P 374069-20-2P 374070-85-6P
374070-86-7P 374070-87-8P 374070-89-0P
374070-90-3P
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of novel multicyclic compds. and their amino acid derivs.)
as inhibitors of enzymes for treatment of diseases related to
enzymes such as poly(ADP-ribose) polymerase, VEGFR2 kinase, and MLK3 kinase)
RN 374069-09-7 CAPLUS
CN 1H-Cyclopenta[a]pyrrolo[3,4-c]carbazole-1,3(2H)-dione,
7-[(2S)-2,6-diamino-1-oxohexyl]-4,5,6,7-tetrahydro-, dihydrochloride
(9CI)
(CA INDEX NAME)
Absolute stereochemistry.

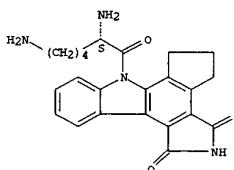
L7 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
AB The title compds. such as penta[a]pyrrolo[3,4-c]carbazole,
hexano[a]pyrrolo[3,4-c]carbazole, pyrrolo[3,4-c]carbazole, and
furan[a-3,2]pyrrolo[3,4-c]carbazole derivs. [I: A, B = CO, CH(OR3),
CH(SR3), CH2, CHR3, CHR3CHR4, CR3R4, COR3, N:CR3, SO, SO2 (wherein
R3, R4 = H, optionally substituted lower alkyl or aryl); Y and Z, together
with the carbon to which they are attached, form an (un)substituted mono-
or bicyclic aryl or bicyclic heteroaryl, or C3-5 heteroaryl; E, F = lower
alkyl or E and F, together with the carbon to which they are attached,
form an (un)substituted C4-7 cycloalkyl, C3-6 heterocycloalkyl or
heteroaryl, or an (un)substituted heterocycloalkyl endocyclically
comprising at least one group G (wherein G = O, S, SO, SO2, NR2,
NR2CO, NR2CONR3, NR2SO2, NR3SO2; R2 = H, optionally substituted lower alkyl
or alkanoyl, CHO, acetyl, lower alkylsulfonyl, arylsulfonyl, an
optionally protected amino acid)] are prep. These compds. are effective in the
treatment of diseases or disease states related to the activity of
enzymes such as poly(ADP-ribose) polymerase (PARP), vascular endothelial
growth factor receptor kinase (VEGFR2 kinase), and MLK3 kinase (a member of the
mixed lineage kinase family), including, for example, traumatic
central nervous system injuries, neurodegenerative diseases (in particular
Parkinson's, Huntington's, or Alzheimer's disease), inflammation,
cerebral or cardiac ischemia, endotoxic shock, diabetes, or cellular
proliferative disorders (in particular cancer, solid tumors, diabetic retinopathy,
intraocular neovascular syndromes, macular degeneration, rheumatoid
arthritis, psoriasis, or endometriosis). They also suppress the
formation of blood vessels (angiogenesis) and prevent neuronal degradn. assocd.
with traumatic central nervous system injuries. Thus, 2H-1,3,4,5,6,7-
hexahydrocyclopenta[a]pyrrolo[3,4-c]carbazole-1,3-dione (II; R = H)
(prepn. given) was treated with NaH in DMF at room temp. for 30 min
and condensed with a stirred mixt. of Boc-Lys(Boc)-OH dicyclohexylamine
salt, TBTU, N-Methylmorpholine, and DMF at room temp. for 1 h, followed by
treatment of the product with 4 N HCl in dioxane to give II (R =
H-Lys).
II (R = H-Lys) showed IC50 of .mu.g/mL against of 22 nM against PARP.
IT 374069-19-9P
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT

L7 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

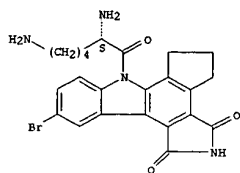


●2 HCl

RN 374069-20-2 CAPLUS
CN 1H-Cyclopenta[a]pyrrolo[3,4-c]carbazole-1,3(2H)-dione,
7-[(2S)-2,6-diamino-1-oxohexyl]-4,5,6,7-tetrahydro- (9CI) (CA INDEX
NAME)
Absolute stereochemistry.

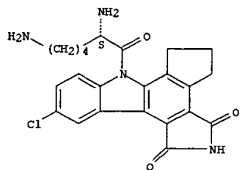


RN 374070-85-6 CAPLUS
CN 1H-Cyclopenta[a]pyrrolo[3,4-c]carbazole-1,3(2H)-dione,
10-bromo-7-[(2S)-2,6-diamino-1-oxohexyl]-4,5,6,7-tetrahydro- (9CI)
(CA INDEX NAME)
Absolute stereochemistry.



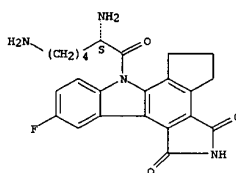
RN 374070-86-7 CAPLUS
 CN 1H-Cyclopenta[a]pyrrolo[3,4-c]carbazole-1,3(2H)-dione,
 10-chloro-7-[(2S)-2,6-diamino-1-oxohexyl]-4,5,6,7-tetrahydro- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



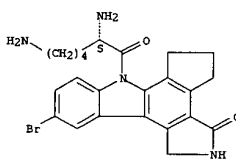
RN 374070-87-8 CAPLUS
 CN 1H-Cyclopenta[a]pyrrolo[3,4-c]carbazole-1,3(2H)-dione,
 7-[(2S)-2,6-diamino-1-oxohexyl]-10-fluoro-4,5,6,7-tetrahydro- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



RN 374070-89-0 CAPLUS
 CN 3H-Cyclopenta[a]pyrrolo[3,4-c]carbazol-3-one,
 10-bromo-7-[(2S)-2,6-diamino-1-oxohexyl]-1,2,4,5,6,7-hexahydro-, dihydrochloride (9CI) (CA INDEX NAME)

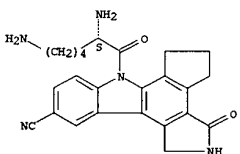
Absolute stereochemistry.



● 2 HCl

RN 374070-90-3 CAPLUS
 CN 1H-Cyclopenta[a]pyrrolo[3,4-c]carbazole-10-carbonitrile,
 7-[(2S)-2,6-diamino-1-oxohexyl]-2,3,4,5,6,7-hexahydro-3-oxo-,
 dihydrochloride (9CI) (CA INDEX NAME)

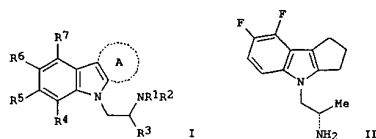
Absolute stereochemistry.



● 2 HCl

ACCESSION NUMBER: 2001:137192 CAPLUS
 DOCUMENT NUMBER: 134:193339
 TITLE: Preparation of indole derivatives as agonists or antagonists of a 5-HT receptor, particularly a 5-HT2C receptor
 INVENTOR(S): Bentley, Jonathan Mark; Roffey, Jonathan Richard
 Howard Anthony; Davidson, James Edward Paul; Mansell, Langham; Hamlyn, Richard John; Cliffe, Ian
 Anthony; Adams, David Reginald; Monck, Nathaniel Julius
 Vernalis Research Limited, UK
 PATENT ASSIGNEE(S): PCT Int. Appl., 67 pp.
 SOURCE: CODEN: PIKXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

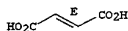
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001012603	A1	20010222	WO 2000-GB3011	20000804
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EP 1202965	A1	20020508	EP 2000-951697	20000804
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
BR 2000013307 A 20020528 BR 2000-13307 20000804				
PRIORITY APPLN. INFO.: GB 1999-18962 A 19990811				
WO 2000-GB3011 W 20000804				
OTHER SOURCE(S): MARPAT 134:193339				
GI				



AB The title compds. [I; R1, R2 = H, alkyl; R3 = alkyl; R4, R6, R7 = H, halo, OH, etc.; R5 = H, halo, OH, etc.; A = 5-6 membered partially unsatd. or arcm. heterocyclic ring or 5-6 membered partially unsatd. carbocyclic ring (wherein if A = 6-membered partially unsatd. carbocyclic ring then at least one of R4-R7 is other than H atom)] and their pharmaceutically acceptable salts, useful in therapy, particularly as agonists or antagonists of 5-HT receptor, particularly a 5-HT2C receptor, for instance in the treatment of disorders of the central nervous system, damage to the central nervous system, cardiovascular disorders, gastrointestinal disorders, diabetes insipidus, and sleep apnea, and particularly for the treatment of obesity, were prepd. E.g., a multi-step synthesis of (S)-II fumarate which showed Ki of 65 nM against 5-HT2C receptor binding, was given.

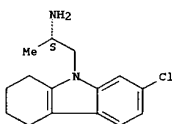
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 327021-76-1P 327021-77-2P 327022-55-9P
 327022-56-0P 327022-57-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);



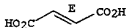
RN 327021-18-1 CAPLUS
 CN 9H-Carbazole-9-ethanamine, 2-chloro-5,6,7,8-tetrahydro-.alpha.-methyl-, (.alpha.S)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)
 CM 1
 CRN 327021-17-0
 CMF C15 H19 Cl N2

Absolute stereochemistry.



CM 2
 CRN 110-17-8
 CMF C4 H4 O4

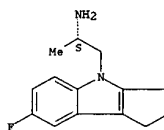
Double bond geometry as shown.



RN 327021-19-2 CAPLUS
 CN Cyclopent[b]indole-4 (1H)-ethanamine, 8-chloro-2,3-dihydro-.alpha.-methyl-, (.alpha.S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

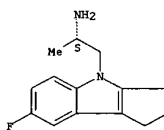
Absolute stereochemistry.



RN 327021-16-9 CAPLUS
 CN Cyclopent[b]indole-4 (1H)-ethanamine, 7-fluoro-2,3-dihydro-.alpha.-methyl-, (.alpha.S)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

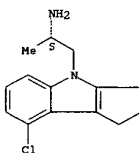
CM 1
 CRN 327021-15-8
 CMF C14 H17 F N2

Absolute stereochemistry.



CM 2
 CRN 110-17-8
 CMF C4 H4 O4

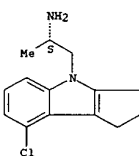
Double bond geometry as shown.



RN 327021-20-5 CAPLUS
 CN Cyclopent[b]indole-4 (1H)-ethanamine, 8-chloro-2,3-dihydro-.alpha.-methyl-, (.alpha.S)-, (2E)-2-butenedioate (10:11) (9CI) (CA INDEX NAME)

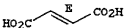
CM 1
 CRN 327021-19-2
 CMF C14 H17 Cl N2

Absolute stereochemistry.



CM 2
 CRN 110-17-8
 CMF C4 H4 O4

Double bond geometry as shown.



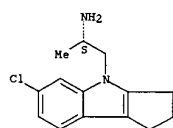
RN 327021-22-7 CAPLUS
 CN Cyclopent[b]indole-4 (1H)-ethanamine, 6-chloro-2,3-dihydro-.alpha.-methyl-,

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
(.alpha.S)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 327021-21-6
CHF C14 H17 Cl N2

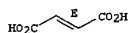
Absolute stereochemistry.



CM 2

CRN 110-17-8
CHF C4 H4 O4

Double bond geometry as shown.

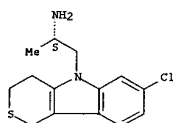


RN 327021-24-9 CAPLUS
CN Thiopyrano[4,3-b]indole-5(1H)-ethanamine,
7-chloro-3,4-dihydro-.alpha.-methyl-, (.alpha.S)-, (2E)-2-butenedioate (2:1) (9CI) (CA INDEX NAME)

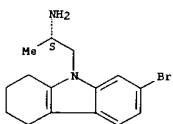
CM 1

CRN 327021-23-8
CHF C14 H17 Cl N2 S

Absolute stereochemistry.



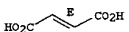
L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
Absolute stereochemistry.



CM 2

CRN 110-17-8
CHF C4 H4 O4

Double bond geometry as shown.

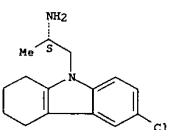


RN 327021-30-7 CAPLUS
CN 9H-Carbazole-9-ethanamine,
3-chloro-5,6,7,8-tetrahydro-.alpha.-methyl-, (.alpha.S)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 327021-29-4
CHF C15 H19 Cl N2

Absolute stereochemistry.



CM 2

CRN 110-17-8
CHF C4 H4 O4

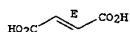
Double bond geometry as shown.

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

CM 2

CRN 110-17-8
CHF C4 H4 O4

Double bond geometry as shown.

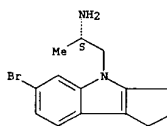


RN 327021-26-1 CAPLUS
CN Cyclopent[b]indole-4(1H)-ethanamine,
6-bromo-2,3-dihydro-.alpha.-methyl-, (.alpha.S)-, (2E)-2-butenedioate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 327021-25-0
CHF C14 H17 Br N2

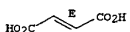
Absolute stereochemistry.



CM 2

CRN 110-17-8
CHF C4 H4 O4

Double bond geometry as shown.

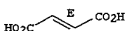


RN 327021-28-3 CAPLUS
CN 9H-Carbazole-9-ethanamine, 2-bromo-5,6,7,8-tetrahydro-.alpha.-methyl-, (.alpha.S)-, (2E)-2-butenedioate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 327021-27-2
CHF C15 H19 Br N2

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

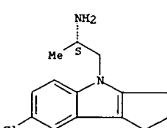


RN 327021-32-9 CAPLUS
CN Cyclopent[b]indole-4(1H)-ethanamine,
7-chloro-2,3-dihydro-.alpha.-methyl-, (.alpha.S)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 327021-31-8
CHF C14 H17 Cl N2

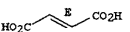
Absolute stereochemistry.



CM 2

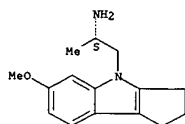
CRN 110-17-8
CHF C4 H4 O4

Double bond geometry as shown.



RN 327021-33-0 CAPLUS
CN Cyclopent[b]indole-4(1H)-ethanamine,
2,3-dihydro-6-methoxy-.alpha.-methyl-, (.alpha.S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

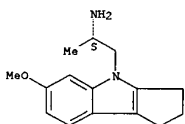


RN 327021-34-1 CAPLUS
CN Cyclopent[b]indole-4(1H)-ethanamine,
2,3-dihydro-6-methoxy-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 327021-33-0
CMF C15 H20 N2 O

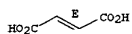
Absolute stereochemistry.



CM 2

CRN 110-17-8
CMF C4 H4 O4

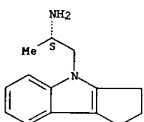
Double bond geometry as shown.



RN 327021-37-4 CAPLUS
CN Cyclopent[b]indole-4(1H)-ethanamine,
2,3-dihydro-8-methoxy-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

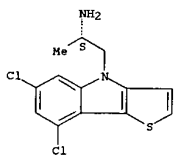
CRN 327021-36-3
CMF C15 H20 N2 O



● HCl

RN 327021-40-9 CAPLUS
CN 4H-Thieno[3,2-b]indole-4-ethanamine, 6,8-dichloro-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

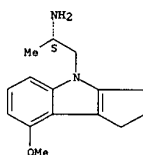


● HCl

RN 327021-41-0 CAPLUS
CN Cyclopent[b]indole-4(1H)-ethanamine,
6-chloro-7-fluoro-2,3-dihydro-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

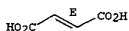
Absolute stereochemistry.



CM 2

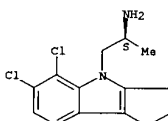
CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.



RN 327021-38-5 CAPLUS
CN Cyclopent[b]indole-4(1H)-ethanamine, 5,6-dichloro-2,3-dihydro-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

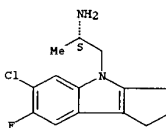
Absolute stereochemistry.



● HCl

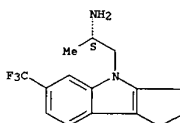
RN 327021-39-6 CAPLUS
CN Cyclopent[b]indole-4(1H)-ethanamine, 2,3-dihydro-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 327021-42-1 CAPLUS
CN Cyclopent[b]indole-4(1H)-ethanamine, 2,3-dihydro-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

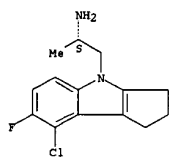
Absolute stereochemistry.



● HCl

RN 327021-43-2 CAPLUS
CN Cyclopent[b]indole-4(1H)-ethanamine,
8-chloro-7-fluoro-2,3-dihydro-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

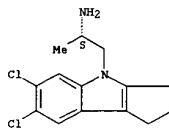
Absolute stereochemistry.



● HCl

RN 327021-44-3 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine,
 6,7-dichloro-2,3-dihydro-.alpha.-
 methyl-, monohydrochloride, (.alpha.S)- (9CI) (CA INDEX NAME)

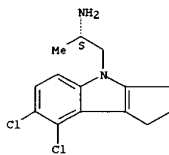
Absolute stereochemistry.



● HCl

RN 327021-45-4 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine,
 2,3-dihydro-7-methoxy-.alpha.-methyl-,
 monohydrochloride, (.alpha.S)- (9CI) (CA INDEX NAME)

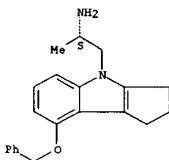
Absolute stereochemistry.



● HCl

RN 327021-48-7 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 2,3-dihydro-.alpha.-methyl-8-
 (phenylmethoxy)-, monohydrochloride, (.alpha.S)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.

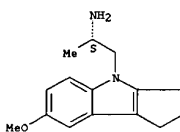


● HCl

RN 327021-50-1 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 2,3-dihydro-.alpha.-methyl-8-(1-
 methylethoxy)-, (.alpha.S)-, (ZE)-2-butenedioate (1:1) (9CI) (CA
 INDEX
 NAME)

CM 1

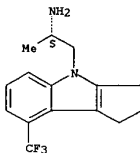
CRN 327021-49-8
 CMF C17 H24 N2 O



● HCl

RN 327021-46-5 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 2,3-dihydro-.alpha.-methyl-8-
 (trifluoromethyl)-, monohydrochloride, (.alpha.S)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.

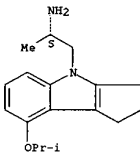


● HCl

RN 327021-47-6 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 7,8-dichloro-2,3-dihydro-.alpha.-
 methyl-, monohydrochloride, (.alpha.S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

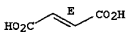
Absolute stereochemistry.



CM 2

CRN 110-17-8
 CMF C4 H4 O4

Double bond geometry as shown.

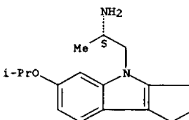


RN 327021-52-3 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 2,3-dihydro-.alpha.-methyl-6-(1-
 methylethoxy)-, (.alpha.S)-, (ZE)-2-butenedioate (2:1) (9CI) (CA
 INDEX
 NAME)

CM 1

CRN 327021-51-2
 CMF C17 H24 N2 O

Absolute stereochemistry.

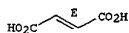


CM 2

CRN 110-17-8

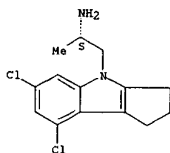
L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CNP C4 H4 O4

Double bond geometry as shown.



RN 327021-53-4 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine,
 6,8-dichloro-2,3-dihydro-.alpha.-
 methyl-, monohydrochloride, (.alpha.S)- (9CI) (CA INDEX NAME)

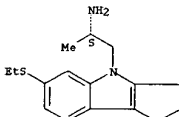
Absolute stereochemistry.



● HCl

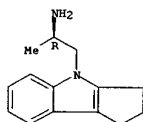
RN 327021-54-5 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine,
 6-(ethylthio)-2,3-dihydro-.alpha.-
 methyl-, monohydrochloride, (.alpha.S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

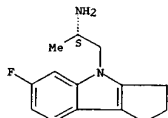
L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



● HCl

RN 327021-58-9 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine,
 6-fluoro-2,3-dihydro-.alpha.-methyl-,
 monohydrochloride, (.alpha.S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

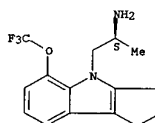
RN 327021-59-0 CAPLUS
 CN 4H-Thieno[3,2-b]indole-4-ethanamine, .alpha.-methyl-,
 monohydrochloride,
 (.alpha.S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

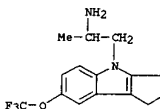
RN 327021-55-6 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 2,3-dihydro-.alpha.-methyl-5-
 (trifluoromethoxy)-, monohydrochloride, (.alpha.S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

RN 327021-56-7 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 2,3-dihydro-.alpha.-methyl-7-
 (trifluoromethoxy)-, monohydrochloride (9CI) (CA INDEX NAME)

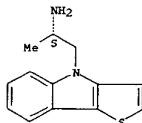


● HCl

RN 327021-57-8 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 2,3-dihydro-.alpha.-methyl-,
 monohydrochloride, (.alpha.R)- (9CI) (CA INDEX NAME)

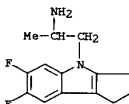
Absolute stereochemistry.

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



● HCl

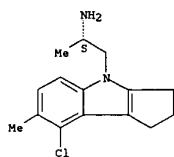
RN 327021-60-3 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 6,7-difluoro-2,3-dihydro-.alpha.-
 methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 327021-61-4 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 8-chloro-2,3-dihydro-.alpha.,7-
 dimethyl-, monohydrochloride, (.alpha.S)- (9CI) (CA INDEX NAME)

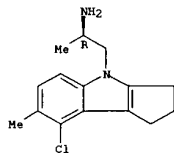
Absolute stereochemistry.



● HCl

RN 327021-62-5 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 8-chloro-2,3-dihydro-.alpha.,7-dimethyl-, monohydrochloride, (.alpha.R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



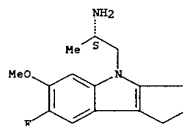
● HCl

RN 327021-64-7 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 7-fluoro-2,3-dihydro-6-methoxy-.alpha.-methyl-, (.alpha.R)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 327021-63-6
 CMF C15 H19 F N2 O

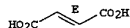
Absolute stereochemistry.



CM 2

CRN 110-17-8
 CMF C4 H4 O4

Double bond geometry as shown.

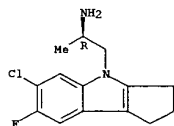


RN 327021-68-1 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 6-chloro-7-fluoro-2,3-dihydro-.alpha.-methyl-, (.alpha.R)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

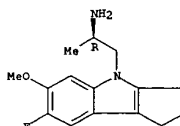
CRN 327021-67-0
 CMF C14 H16 Cl F N2

Absolute stereochemistry.



CM 2

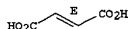
CRN 110-17-8
 CMF C4 H4 O4



CM 2

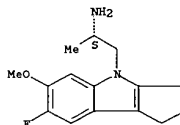
CRN 110-17-8
 CMF C4 H4 O4

Double bond geometry as shown.



RN 327021-65-8 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 7-fluoro-2,3-dihydro-6-methoxy-.alpha.-methyl-, (.alpha.S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



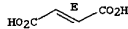
RN 327021-66-9 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 7-fluoro-2,3-dihydro-6-methoxy-.alpha.-methyl-, (.alpha.S)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 327021-65-8
 CMF C15 H19 F N2 O

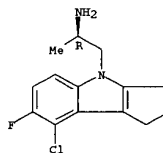
Absolute stereochemistry.

Double bond geometry as shown.



RN 327021-69-2 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 8-chloro-7-fluoro-2,3-dihydro-.alpha.-methyl-, monohydrochloride, (.alpha.R)- (9CI) (CA INDEX NAME)

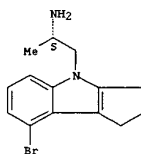
Absolute stereochemistry.



● HCl

RN 327021-70-5 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 8-bromo-2,3-dihydro-.alpha.-methyl-, monohydrochloride, (.alpha.S)- (9CI) (CA INDEX NAME)

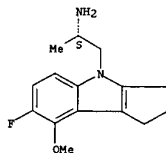
Absolute stereochemistry.



● HCl

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 327021-71-6 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 7-fluoro-2,3-dihydro-8-methoxy-
 .alpha.-methyl-, (.alpha.S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

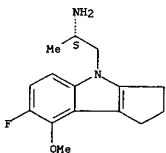


RN 327021-72-7 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 7-fluoro-2,3-dihydro-8-methoxy-
 .alpha.-methyl-, (.alpha.S)-, (2E)-2-butenedioate (2:1) (9CI) (CA
 INDEX NAME)

CM 1

CRN 327021-71-6
 CMF C15 H19 F N2 O

Absolute stereochemistry.

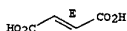


CM 2

CRN 110-17-8
 CMF C4 H4 O4

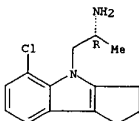
Double bond geometry as shown.

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 327021-73-8 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine,
 5-chloro-2,3-dihydro-.alpha.-methyl-,
 monohydrochloride, (.alpha.R)- (9CI) (CA INDEX NAME)

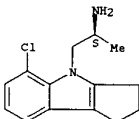
Absolute stereochemistry.



● HCl

RN 327021-74-9 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine,
 5-chloro-2,3-dihydro-.alpha.-methyl-,
 (.alpha.S)- (9CI) (CA INDEX NAME)

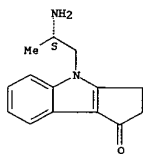
Absolute stereochemistry.



RN 327021-75-0 CAPLUS
 CN Cyclopent[b]indol-1(2H)-one, 4-[(2S)-2-aminopropyl]-3,4-dihydro- (9CI)
 (CA INDEX NAME)

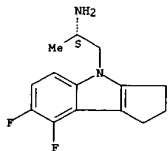
Absolute stereochemistry.

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 327021-76-1 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine,
 7,8-difluoro-2,3-dihydro-.alpha.-
 methyl-, (.alpha.S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



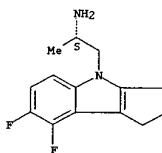
RN 327021-77-2 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine,
 7,8-difluoro-2,3-dihydro-.alpha.-
 methyl-, (.alpha.S)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX
 NAME)

CM 1

CRN 327021-76-1
 CMF C14 H16 F2 N2

Absolute stereochemistry.

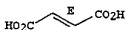
L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



CM 2

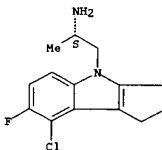
CRN 110-17-8
 CMF C4 H4 O4

Double bond geometry as shown.



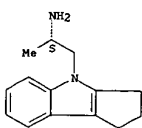
RN 327022-55-9 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine,
 8-chloro-7-fluoro-2,3-dihydro-.alpha.-
 methyl-, (.alpha.S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



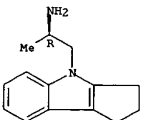
RN 327022-56-0 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 2,3-dihydro-.alpha.-methyl-,
 (.alpha.S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 327022-57-1 CAPLUS
CN Cyclopent[b]indole-4(1H)-ethanamine, 2,3-dihydro-.alpha.-methyl-,
(.alpha.R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



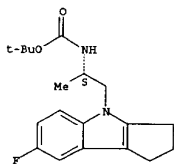
IT 327021-80-7P 327022-13-9P 327022-14-0P
327022-15-1P 327022-16-2P 327022-17-3P
327022-18-4P 327022-19-5P 327022-20-8P
327022-21-9P 327022-22-0P 327022-23-1P
327022-24-2P 327022-25-3P 327022-26-4P
327022-27-5P 327022-28-6P 327022-29-7P
327022-30-0P 327022-31-1P 327022-32-2P
327022-33-3P 327022-34-4P 327022-35-5P
327022-36-6P 327022-37-7P 327022-38-8P
327022-39-9P 327022-40-2P 327022-41-3P
327022-42-4P 327022-43-5P 327022-44-6P
327022-45-7P 327022-46-8P 327022-47-9P
327022-48-0P 327022-49-1P 327022-50-4P
327022-51-5P 327022-52-6P 327022-53-7P
327022-54-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

RACET (Reactant or reagent)
(prepn. of indole derivs. as agonists or antagonists of a 5-HT
receptor, particularly a 5-HT2C receptor)

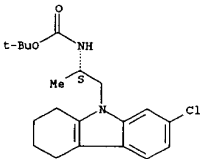
RN 327021-80-7 CAPLUS
CN Carbamic acid,
[(1S)-2-(7,8-difluoro-2,3-dihydrocyclopent[b]indol-4(1H)-
yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



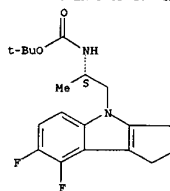
RN 327022-15-1 CAPLUS
CN Carbamic acid,
[(1S)-2-(7-chloro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-1-
methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



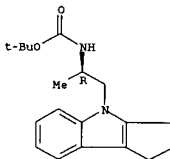
RN 327022-16-2 CAPLUS
CN Carbamic acid,
[(1S)-2-(8-chloro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-
methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



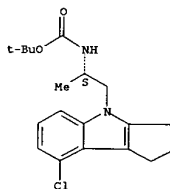
RN 327022-13-9 CAPLUS
CN Carbamic acid, [(1R)-2-(2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-
methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



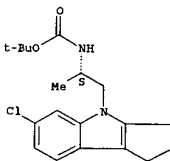
RN 327022-14-0 CAPLUS
CN Carbamic acid,
[(1S)-2-(7-fluoro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-
methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



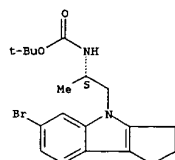
RN 327022-17-3 CAPLUS
CN Carbamic acid,
[(1S)-2-(6-chloro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-
methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



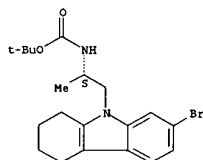
RN 327022-18-4 CAPLUS
CN Carbamic acid,
[(1S)-2-(6-bromo-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-
methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



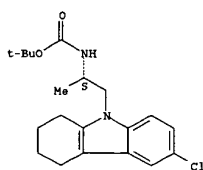
RN 327022-19-5 CAPLUS
 CN Carbamic acid,
 [(1S)-2-(7-bromo-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



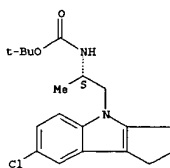
RN 327022-20-8 CAPLUS
 CN Carbamic acid,
 [(1S)-2-(6-chloro-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



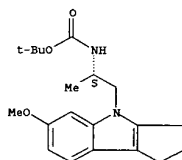
RN 327022-21-9 CAPLUS
 CN Carbamic acid,
 [(1S)-2-(7-chloro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



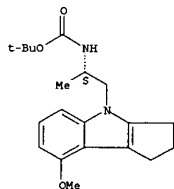
RN 327022-22-0 CAPLUS
 CN Carbamic acid,
 [(1S)-2-(2,3-dihydro-6-methoxycyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



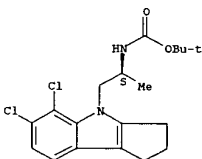
RN 327022-23-1 CAPLUS
 CN Carbamic acid,
 [(1S)-2-(8-methoxy-1,2,3,4-tetrahydro-9H-carbazol-9-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



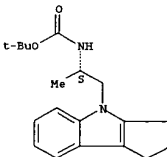
RN 327022-24-2 CAPLUS
 CN Carbamic acid,
 [(1S)-2-(5,6-dichloro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



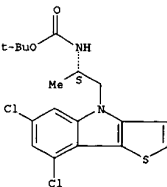
RN 327022-25-3 CAPLUS
 CN Carbamic acid, [(1S)-2-(2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



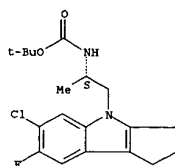
RN 327022-26-4 CAPLUS
 CN Carbamic acid, [(1S)-2-(6,8-dichloro-4H-thieno[3,2-b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



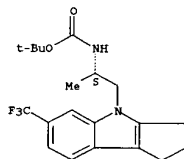
RN 327022-27-5 CAPLUS
 CN Carbamic acid,
 [(1S)-2-(6-chloro-7-fluoro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



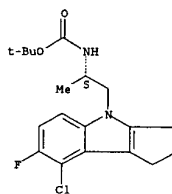
RN 327022-28-6 CAPLUS
 CN Carbamic acid,
 [(1S)-2-[2,3-dihydro-6-(trifluoromethyl)cyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



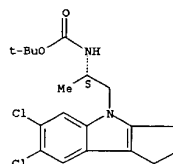
RN 327022-29-7 CAPLUS
 CN Carbamic acid,
 [(1S)-2-(8-chloro-7-fluoro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



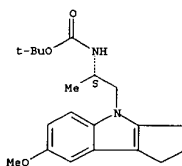
RN 327022-30-0 CAPLUS
 CN Carbamic acid,
 [(1S)-2-(6,7-dichloro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



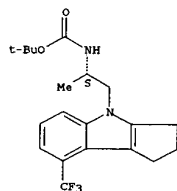
RN 327022-31-1 CAPLUS
 CN Carbamic acid,
 [(1S)-2-(2,3-dihydro-7-methoxycyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



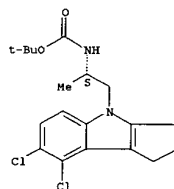
RN 327022-32-2 CAPLUS
 CN Carbamic acid,
 [(1S)-2-[2,3-dihydro-8-(trifluoromethyl)cyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



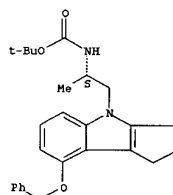
RN 327022-33-3 CAPLUS
 CN Carbamic acid,
 [(1S)-2-(7,8-dichloro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



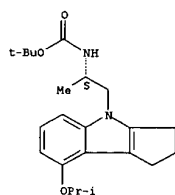
RN 327022-34-4 CAPLUS
 CN Carbamic acid,
 [(1S)-2-[2,3-dihydro-8-(phenylmethoxy)cyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



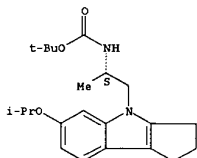
RN 327022-35-5 CAPLUS
 CN Carbamic acid,
 [(1S)-2-[2,3-dihydro-8-(1-methylethoxy)cyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



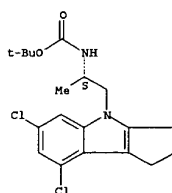
RN 327022-36-6 CAPLUS
CN Carbamic acid,
[(1S)-2-[2,3-dihydro-6-(1-methylethoxy)cyclopent[b]indol-4(1H)-yl]-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



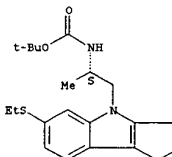
RN 327022-37-7 CAPLUS
CN Carbamic acid,
[(1S)-2-(6,8-dichloro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



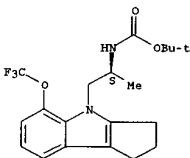
RN 327022-38-8 CAPLUS
CN Carbamic acid,
[(1S)-2-[6-(ethylthio)-2,3-dihydrocyclopent[b]indol-4(1H)-yl]-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



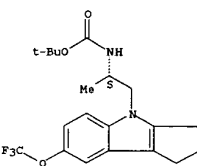
RN 327022-39-9 CAPLUS
CN Carbamic acid,
[(1S)-2-[2,3-dihydro-5-(trifluoromethoxy)cyclopent[b]indol-4(1H)-yl]-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



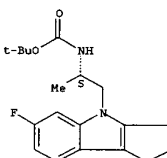
RN 327022-40-2 CAPLUS
CN Carbamic acid,
[(1S)-2-[2,3-dihydro-7-(trifluoromethoxy)cyclopent[b]indol-4(1H)-yl]-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



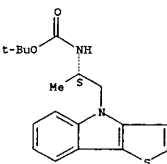
RN 327022-41-3 CAPLUS
CN Carbamic acid,
[(1S)-2-(6-fluoro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



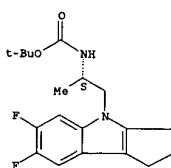
RN 327022-42-4 CAPLUS
CN Carbamic acid, [(1S)-1-methyl-2-(4H-thieno[3,2-b]indol-4-yl)ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



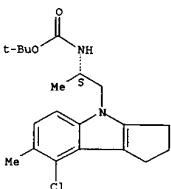
RN 327022-43-5 CAPLUS
CN Carbamic acid,
[(1S)-2-(6,7-difluoro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



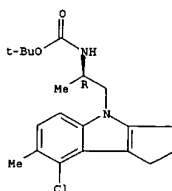
RN 327022-44-6 CAPLUS
CN Carbamic acid,
[(1S)-2-(6-chloro-2,3-dihydro-7-methylcyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



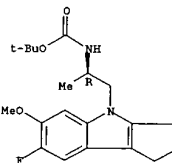
RN 327022-45-7 CAPLUS
CN Carbamic acid,
[(1R)-2-(8-chloro-2,3-dihydro-7-methylcyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



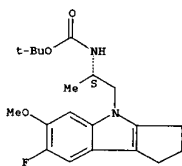
RN 327022-46-8 CAPLUS
CN Carbamic acid,
[(1R)-2-(7-fluoro-2,3-dihydro-6-methoxycyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



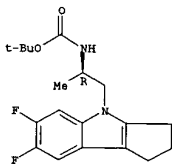
RN 327022-47-9 CAPLUS
CN Carbamic acid,
[(1S)-2-(7-fluoro-2,3-dihydro-6-methoxycyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



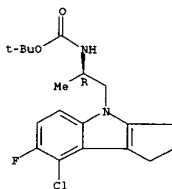
RN 327022-48-0 CAPLUS
CN Carbamic acid,
[(1R)-2-(6,7-difluoro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



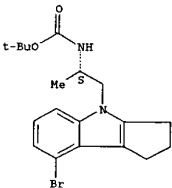
RN 327022-49-1 CAPLUS
CN Carbamic acid,
[(1R)-2-(8-chloro-7-fluoro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



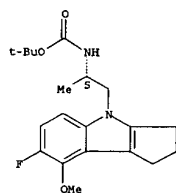
RN 327022-50-4 CAPLUS
CN Carbamic acid,
[(1S)-2-(8-bromo-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



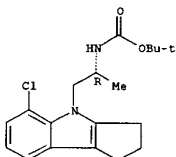
RN 327022-51-5 CAPLUS
CN Carbamic acid,
[(1S)-2-(7-fluoro-2,3-dihydro-8-methoxycyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



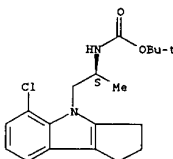
RN 327022-52-6 CAPLUS
 CN Carbamic acid,
 [(1R)-2-(5-chloro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



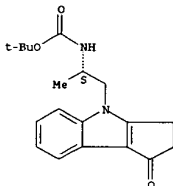
RN 327022-53-7 CAPLUS
 CN Carbamic acid,
 [(1S)-2-(5-chloro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 327022-54-8 CAPLUS
 CN Carbamic acid,
 [(1S)-2-(2,3-dihydro-1-oxocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

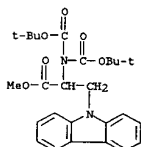
Absolute stereochemistry.



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

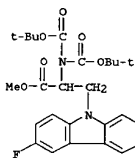
FORMAT

ACCESSION NUMBER: 2000:894556 CAPLUS
 DOCUMENT NUMBER: 134:193686
 TITLE: High yield synthesis of heterocyclic .beta.-substituted alanine derivatives
 AUTHOR(S): Ferreira, Paula M. T.; Maia, Hernani L. S.; Monteiro,
 CORPORATE SOURCE: Luis S. Department of Chemistry, University of Minho, Gualtar,
 SOURCE: P-4700-320, Port. Peptides for the New Millennium, Proceedings of the
 MN, American Peptide Symposium, 16th, Minneapolis, United States, June 26-July 1, 1999 (2000),
 Meeting Date 1999, 70-71. Editor(s): Fields, Gregg B.; Tam,
 Publishers: James P.; Barany, George. Kluwer Academic
 Dordrecht, Neth.
 CODEN: 69ATHX
 CONFERENCE
 LANGUAGE: English
 AB A symposium report on the prodn. of various heterocyclic .beta.-substituted alanines by Michael addn. to the Me ester of N,N-di-tert-butoxycarbonyldehydroalanine [Boc-.DELTA.Ala(N-Boc)-OMe], by taking advantage of the double acylation to obtain straightforward, high yield syntheses in soln.
 IT 314255-02-2P 314255-03-3P 314255-04-4P
 328066-00-8P
 RL: SPN (Synthetic preparation); PREP (Preparation) (high yield synthesis of heterocyclic .beta.-substituted alanine derivs.)
 RN 314255-02-2 CAPLUS
 CN 9H-Carbazole-9-propanoic acid, .alpha.-[bis[(1,1-dimethylethoxy)carbonyl]amino]-, methyl ester (9CI) (CA INDEX NAME)

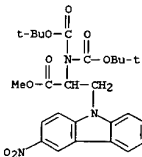


RN 314255-03-3 CAPLUS

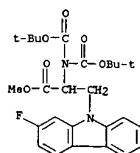
L7 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CN 9H-Carbazole-9-propanoic acid, .alpha.-[bis[(1,1-dimethylethoxy)carbonyl]amino]-3-fluoro-, methyl ester (9CI) (CA INDEX NAME)



RN 314255-04-4 CAPLUS
 CN 9H-Carbazole-9-propanoic acid, .alpha.-[bis[(1,1-dimethylethoxy)carbonyl]amino]-3-nitro-, methyl ester (9CI) (CA INDEX NAME)

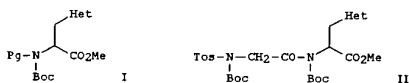


RN 328066-00-8 CAPLUS
 CN 9H-Carbazole-9-propanoic acid, .alpha.-[bis[(1,1-dimethylethoxy)carbonyl]amino]-2-fluoro-, methyl ester (9CI) (CA INDEX NAME)

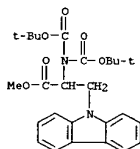


REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

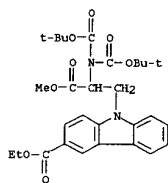
L7 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2000:680642 CAPLUS
 DOCUMENT NUMBER: 134:71864
 TITLE: Synthesis of .beta.-substituted alanines via Michael addition of nucleophiles to dehydroalanine derivatives
 AUTHOR(S): Ferreira, Paula M. T.; Maia, Hernani L. S.; Luis S.; Sacramento, Joana; Sebastiao, Joana
 CORPORATE SOURCE: Department of Chemistry, University of Minho, Braga, P-4700-320, Port.
 SOURCE: Perkin 1 (2000), (19), 3317-3324
 CODEN: PERK99
 PUBLISHER: Royal Society of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 134:71864
 GI



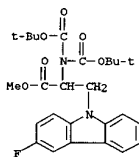
AB Several .beta.-heterocyclic alanines I (Pg = Boc, Chz, benzoyl, 4-nitrobenzoyl, 4-nitrobenzyloxycarbonyl; Het = pyrazol-1-yl, 1,2,4-triazol-1-yl, imidazol-1-yl, 3-formylindol-1-yl, 7-azaindol-1-yl, etc.) are synthesized in high yields by a Michael addn. of heterocyclic nucleophiles to dehydroalanine deriv. Pg-N(Boc)C(=CH2)CO2Me using mild reaction conditions and simple work-up procedures. Similarly, .beta.-heterocyclic alanine-contg. dipeptides II are synthesized.
 IT 314255-02-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of .beta.-heterocyclic alanines from the Michael addn. of heterocyclic nucleophiles to dehydroalanine deriva.)
 RN 314255-02-2 CAPLUS
 CN 9H-Carbazole-9-propanoic acid, .alpha.-[bis[(1,1-dimethylethoxy)carbonyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



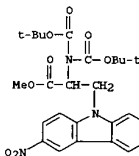
IT 229622-76-8P 314255-03-3P 314255-04-4P
 314255-25-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of .beta.-heterocyclic alanines from the Michael addn. of heterocyclic nucleophiles to dehydroalanine deriva.)
 RN 229622-76-8 CAPLUS
 CN 9H-Carbazole-9-propanoic acid, .alpha.-[bis[(1,1-dimethylethoxy)carbonyl]amino]-3-(ethoxycarbonyl)-, methyl ester (9CI)
 (CA INDEX NAME)



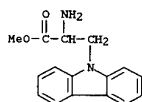
RN 314255-03-3 CAPLUS
 CN 9H-Carbazole-9-propanoic acid, .alpha.-[bis[(1,1-dimethylethoxy)carbonyl]amino]-3-fluoro-, methyl ester (9CI) (CA INDEX NAME)



RN 314255-04-4 CAPLUS
 CN 9H-Carbazole-9-propanoic acid, .alpha.-[bis[(1,1-dimethylethoxy)carbonyl]amino]-3-nitro-, methyl ester (9CI) (CA INDEX NAME)



RN 314255-25-9 CAPLUS
 CN 9H-Carbazole-9-propanoic acid, .alpha.-amino-, methyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)
 CM 1
 CRN 314255-24-8
 CMF C16 H16 N2 O2



L7 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
CM 2

CRN 76-05-1
CMF C2 H F3 O2



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L7 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1999:321283 CAPLUS

DOCUMENT NUMBER: 131:88151
TITLE: High yielding synthesis of heterocyclic
.beta.-substituted alanine derivatives
AUTHOR(S): Ferreira, Paula M. T.; Maia, Hernani L. S.;
Monteiro,

Luis S.
CORPORATE SOURCE: Department of Chemistry, University of Minho,
Braga,

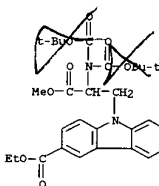
P-4710, Port.
SOURCE: Tetrahedron Letters (1999), 40(21), 4099-4102
CODEN: TETLEY; ISSN: 0040-4039

PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Heterocyclic .beta.-substituted alanine derivs. such as
.beta.-(pyrazol-1-yl)- and .beta.-(1,2,4-triazol-1-yl)alanine are
synthesized in high yields by Michael addn. of heterocyclic
nucleophiles
to N,N-bis(tert-butyloxycarbonyl)dehydroalanine Me ester, using mild
reaction conditions and simple work-up procedures.

IT 229622-76-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of heterocyclic .beta.-substituted alanine deriva.)

RN 229622-76-8 CAPLUS
CN 9H-Carbazole-9-propanoic acid, .alpha.-[bis[(1,1-
dimethylethoxy)carbonyl]amino]-3-(ethoxycarbonyl)-, methyl ester (9CI)
(CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L7 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:804819 CAPLUS
DOCUMENT NUMBER: 130:178951
TITLE: Efficient Incorporation of Nonnatural Amino
Acids with

Large Aromatic Groups into Streptavidin in In
Vitro

Protein Synthesizing Systems
AUTHOR(S): Hoshaka, Takahiro; Kajihara, Daisuke; Ashizuka,
Yuki;

Murakami, Hiroshi; Sisido, Masahiko
CORPORATE SOURCE: Department of Bioscience and Biotechnology
Faculty of Engineering, Okayama University, Okayama,
700-8530,

Japan
SOURCE: Journal of the American Chemical Society (1999),
121(1), 34-40
CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Efficiencies of the incorporation of various nonnatural amino acids
carrying arom. side groups into streptavidin were examd. The arom.

amino acids were linked to a mixed dinucleotide, pdCpA, and the resulting
aminoacyl pdCpAs were coupled with tRNA^{ACCG}(-CA) to afford chem.
aminoacylated tRNA^{ACCG}'s. Mutant streptavidin mRNA contg. a CGGG 4

base codon at the Tyr83 site was prepd. and added to an Escherichia coli
in vitro translation system with the aminoacyl tRNA^{ACCG}. The

expression of the full-length mutant streptavidins was confirmed by a Western blot
anal., and their biotin binding activity was examd. by a dot blot
anal.

The Western blot anal. indicated that the efficiencies of the
incorporation were higher for arom. groups with straight
configurations

than those with widely expanded or bend configurations. The
incorporation efficiencies were also examd. in a rabbit reticulocyte lysate. In

the latter system, the efficiencies were markedly improved for nonnatural
amino acids with large side groups such as pyrene and anthraquinone.
IT 155760-05-7

RL: BPR (Biological process); BSU (Biological study, unclassified);

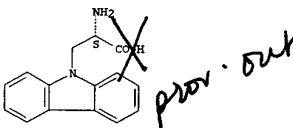
RCT (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant
or reagent)

(efficient incorporation of nonnatural amino acids with large
arom. groups into streptavidin in in vitro protein synthesizing systems)
RN 155760-05-7 CAPLUS

CN 9H-Carbazole-9-propanoic acid, .alpha.-amino-, (.alpha.S)- (9CI) (CA
INDEX NAME)

L7 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

Absolute stereochemistry.



IT 220586-41-4P

RL: BPR (Biological process); BSU (Biological study, unclassified);

RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP
(Preparation); PROC (Process); RACT (Reactant or reagent)
(efficient incorporation of nonnatural amino acids with large arom.
groups into streptavidin in in vitro protein synthesizing systems)

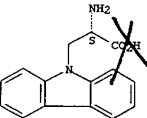
RN 220586-41-4 CAPLUS

CN Adenosine, 2'-deoxy-5'-O-phosphonocytidylyl-(3'.fwdrw.5')-, 2'(or
3')-[(.alpha.S)-.alpha.-amino-9H-carbazole-9-propanoate] (9CI) (CA
INDEX NAME)

CM 1

CRN 155760-05-7
CMF C15 H14 N2 O2

Absolute stereochemistry.

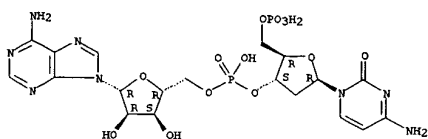


CM 2

CRN 127067-28-1
CMF C19 H26 N8 O13 P2

Absolute stereochemistry.

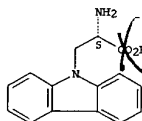
L7 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



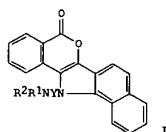
REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L7 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1994:429773 CAPLUS
DOCUMENT NUMBER: 121:29773
TITLE: Adaptability of nonnatural aromatic amino acids
to the active center of the E. coli ribosomal A site
AUTHOR(S): Holsaka, Takahiro; Sato, Ken; Sisido, Masahiko;
Takai, Kazuyuki; Yokoyama, Shigeyuki
CORPORATE SOURCE: Research Laboratory of Resources Utilization,
Tokyo Institute of Technology, 4259 Nagatsuta,
Midori-ku, Yokohama, 227, Japan
SOURCE: FEBS Lett. (1993), 335(1), 47-50
CODEN: FEPLAL; ISSN: 0014-5793
DOCUMENT TYPE: Journal
LANGUAGE: English
AB 3'-N-Aminoacyl analogs of puromycin with nonnatural arom. amino acids
were synthesized and their inhibitory activity in an Escherichia coli in
vitro protein-synthesizing system was evaluated. The analogs with
L-2-naphthylalanine, L-p-biphenylalanine, L-2-anthrylalanine, and
trans-L-p-phenylazophenylalanine inhibited protein synthesis with high
efficiency. The inhibition suggested that these nonnatural amino
acids are accepted by the active center of the E. coli ribosomal
peptidyltransferase A site. A model for the adaptability of
nonnatural arom. amino acids to the peptidyltransferase active center was
proposed.
IT 155760-05-7
RL: BIOL (Biological study)
(adaptability of, to ribosome active center in Escherichia coli)
RN 155760-05-7 CAPLUS
CN 9H-Carbazole-9-propanoic acid, .alpha.-amino-, (.alpha.S)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1992:99164 CAPLUS
DOCUMENT NUMBER: 116:99164
TITLE: Synthesis and pharmacological evaluation of some
novel
13-[N,N-dialkylamino-alkyl]benzo[g][2]benzopyrano[4,3-
b]indol-5[13H]ones
AUTHOR(S): DeVito, Stephen C.; Stephani, Ralph A.
CORPORATE SOURCE: Coll. Pharm. Allied Health Prof., St. John's
Univ., Jamaica, NY, 11439, USA
SOURCE: Med. Chem. Res. (1991), 1(1), 47-51
CODEN: MCREEB; ISSN: 1054-2523
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB The synthesis and biol. evaluation of a series of novel

13-(N,N-dialkylaminoalkyl)benzo[g][2]benzopyrano[4,3-b]indol-5[13H]ones,
or (N-alkylisochromenoindoles) (I, YNR1R2 = 3-piperidinopropyl,
(CH2)3NMe2, (CH2)2NMe2, etc.) have led to the identification of this
class

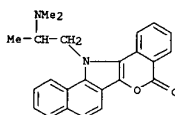
of compds. as potential nonnarcotic analgesic agents.

IT 139214-19-0
RL: BAC (Biological activity or effector, except adverse); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
(analgesic activity of, structure in relation to)

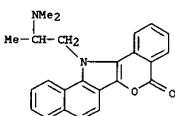
RN 139214-19-0 CAPLUS

CN Benzo[g][2]benzopyrano[4,3-b]indol-5(13H)-one, 13-[2-
(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

L7 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



IT 139214-14-5P
RL: BAC (Biological activity or effector, except adverse); SPN
(Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
(prepn. and analgesic activity of, structure in relation to)
RN 139214-14-5 CAPLUS
CN Benzo[g][2]benzopyrano[4,3-b]indol-5(13H)-one, 13-[2-
(dimethylamino)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L7 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1984:192230 CAPLUS

DOCUMENT NUMBER: 100:192230

TITLE: Synthesis and biological activity of some new substituted aminoacyl-carbazole derivatives.

Part II
AUTHOR(S): El-Naggar, A. M.; Ahmed, F. S. M.; Abd El-Salam, A.

M.; El-Gazzar, M. A.
CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Naser City, Egypt
SOURCE: Arab Gulf J. Sci. Res. (1983), 1(1), 131-9
CODEN: AGJRES

DOCUMENT TYPE: Journal

LANGUAGE: English

G1 For diagram(s), see printed CA Issue.

AB Title compds. I [R = phthalyl (Pht), X = Gly, .beta.-Ala, Ala, Val, Leu, DL-Phe; R = tosyl (Tos), X = .beta.-Ala, Val, Leu; R1 = NO2] were

prepd. in 60-70% yields by condensing R-X-OH with 3-nitro-9H-carbazole by DCC in THF. I (R = Pht, X = same; R = Tos, X = Val, Leu; R1 = NH2) were

prepd. in 50-61% yields by reducing the corresponding I (R1 = NO2) by Sn/HCl. I (R = H; X = .beta.-Ala, Val, Leu, DL-Phe; R1 = NO2) were prepd. in 55-61% yields by the hydrazinolysis of the corresponding I (R = Pht).

Several I exhibited antimicrobial activities against several microorganisms; e.g., I (R = Pht, X = Gly, R1 = NO2) was active against Bacillus subtilis

at a min. inhibitory concn. of 25 .mu.g/mL.

IT 83277-40-1P 83277-41-2P

RI: SPN (Synthetic preparation); PREP (Preparation)

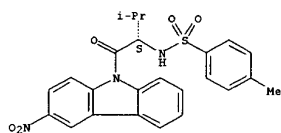
(prepn. and redn. and antimicrobial activity of)

RN 83277-40-1 CAPLUS

CN 9H-Carbazole,

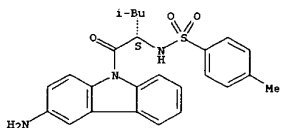
9-[3-methyl-2-[[[4-methylphenyl)sulfonyl]amino]-1-oxobutyl]-3-nitro-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 83277-41-2 CAPLUS

L7 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



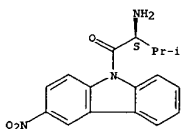
RN 83277-51-4 CAPLUS

CN 9H-Carbazole, 9-(2-amino-3-methyl-1-oxobutyl)-3-nitro-, (S)- (9CI)

(CA

INDEX NAME)

Absolute stereochemistry.



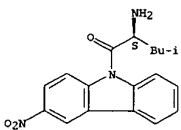
RN 83277-52-5 CAPLUS

CN 9H-Carbazole, 9-(2-amino-4-methyl-1-oxopentyl)-3-nitro-, (S)- (9CI)

(CA

INDEX NAME)

Absolute stereochemistry.



RN 83277-53-6 CAPLUS

CN 9H-Carbazole, 9-(2-amino-1-oxo-3-phenylpropyl)-3-nitro- (9CI) (CA

INDEX

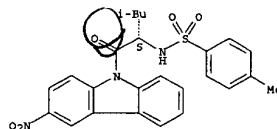
NAME)

L7 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

CN 9H-Carbazole,

9-[4-methyl-2-[[[4-methylphenyl)sulfonyl]amino]-1-oxopentyl]-3-nitro-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 83277-48-9P 83277-49-0P 83277-51-4P

83277-52-5P 83277-53-6P

RI: SPN (Synthetic preparation); PREP (Preparation)

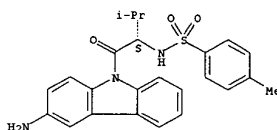
(prepn. of)

RN 83277-48-9 CAPLUS

CN 9H-Carbazol-3-amine,

9-[3-methyl-2-[[[4-methylphenyl)sulfonyl]amino]-1-oxobutyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



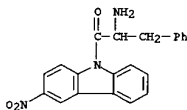
RN 83277-49-0 CAPLUS

CN 9H-Carbazol-3-amine,

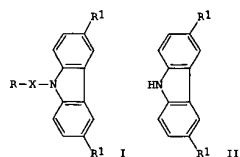
9-[4-methyl-2-[[[4-methylphenyl)sulfonyl]amino]-1-oxopentyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

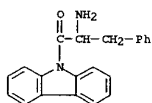


L7 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1983:89843 CAPLUS
 DOCUMENT NUMBER: 98:89843
 TITLE: Synthesis and biological activity of some new aminoacylcarbazole derivatives. Part I
 AUTHOR(S): El-Naggar, A. M.; Ahmed, F. S. M.; Abd El-Salam, A.
 CORPORATE SOURCE: M.; El-Gazzar, M. A.
 SOURCE: Fac. Sci., Al-Azhar Univ., Cairo, Egypt
 J. Heterocycl. Chem. (1982), 19(5), 1025-8
 CODEN: JHCTAD; ISSN: 0022-152X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

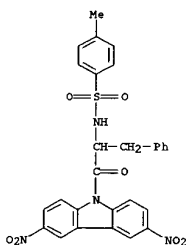


AB Title compds. I (R = phthalyl (Pht); R1 = H, NO2; X = Gly, .beta.-Ala, Ala, Val, Leu, DL-Phe; R = tosyl (Tos), R1 = H, X = Gly, .beta.-Ala, Val, Leu, DL-Phe; R = Tos, R1 = NO2, X = .beta.-Ala, DL-Phe) were prepd. in 54-65% yields by condensing carbazoles II (R1 = H, NO2) with the appropriate R-X-OH by DCC. I (R = Pht, R1 = H, X = .beta.-Ala, Ala, Val, Leu, DL-Phe; R = Pht, R1 = NO2, X = Ala) were deblocked by hydrazinolysis to give I (R = H, R1 = X = same) in 55-64% yields. I (R = Pht, R1 = NO2, X = .beta.-Ala, Ala, Val, Leu, DL-Phe) were reduced by SnCl2 to give the corresponding I (R1 = NH2) in 52-55% yields. Several title compds., e.g. I (R = Pht, R1 = H, X = .beta.-Ala), exhibited antimicrobial activity against a no. of microorganisms, e.g., Bacillus subtilis.
 IT 84708-73-6P 84708-74-7P 84708-75-8P
 84708-76-9P 84708-84-9P 84708-85-0P
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

L7 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

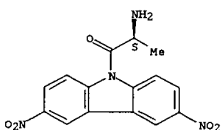


RN 84708-84-9 CAPLUS
 CN 9H-Carbazole, 9-[2-[[[4-methylphenyl)sulfonyl]amino]-1-oxo-3-phenylpropyl]-3,6-dinitro- (9CI) (CA INDEX NAME)



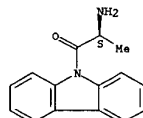
RN 84708-85-0 CAPLUS
 CN 9H-Carbazole, 9-(2-amino-1-oxopropyl)-3,6-dinitro-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



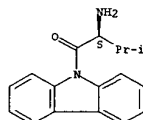
L7 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
 (prepn. and antibacterial activity of)
 RN 84708-73-6 CAPLUS
 CN 9H-Carbazole, 9-(2-amino-1-oxopropyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



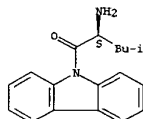
RN 84708-74-7 CAPLUS
 CN 9H-Carbazole, 9-(2-amino-3-methyl-1-oxobutyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 84708-75-8 CAPLUS
 CN 9H-Carbazole, 9-(2-amino-4-methyl-1-oxopentyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

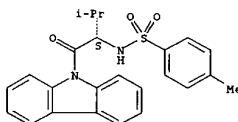


RN 84708-76-9 CAPLUS
 CN 9H-Carbazole, 9-(2-amino-1-oxo-3-phenylpropyl)- (9CI) (CA INDEX NAME)

L7 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

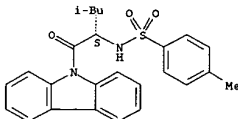
IT 84708-69-0P 84708-70-3P 84708-71-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 84708-69-0 CAPLUS
 CN 9H-Carbazole, 9-[3-methyl-2-[[[4-methylphenyl)sulfonyl]amino]-1-oxobutyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

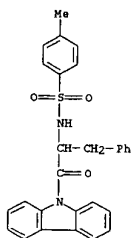


RN 84708-70-3 CAPLUS
 CN 9H-Carbazole, 9-[4-methyl-2-[[[4-methylphenyl)sulfonyl]amino]-1-oxopentyl]-, (S)- (9CI) (CA INDEX NAME)

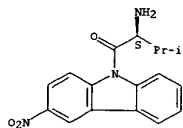
Absolute stereochemistry.



RN 84708-71-4 CAPLUS
 CN 9H-Carbazole, 9-[2-[[[4-methylphenyl)sulfonyl]amino]-1-oxo-3-phenylpropyl]- (9CI) (CA INDEX NAME)

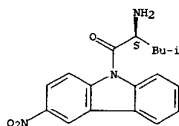


L7 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1982:563439 CAPLUS
 DOCUMENT NUMBER: 97:163439
 TITLE: Synthesis and biological activity of some new substituted aminoacyl-carbazole derivatives.
 Part II
 AUTHOR(S): El-Naggar, A. M.; Ahmed, F. S. M.; Abd El-Salam, A.
 M.; El-Gazzar, M. A.
 CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Naser, Egypt
 SOURCE: Farmaco, Ed. Sci. (1982), 37(7), 494-500
 CODEN: FRPSAX; ISSN: 0430-0920
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB Title compds. I (R = phthalyl (Pht), tosyl (Tos); X = Gly, .beta.-Ala, Val; Leu; R1 = NO2; R = Pht, X = Ala, DL-Phe, R1 = NO2) were prep'd. in 62-70% yields by condensing carbazole II with the appropriate Pht or Tos amino acid by DCC in THF. I (R = Pht, X = Gly, .beta.-Ala, Ala, Val, Leu, DL-Phe, R1 = NH2; R = Tos, X = Val, Leu, R1 = NH2) were prep'd. in 52-61% yields by reducing the corresponding nitro compds. by Sn/HCl. I (R = H; X = B-Ala, Val, Leu, DL-Phe; R1 = NO2) were prep'd. in 55-61% yields by deblocking the corresponding I (R = Pht) by hydrazinolysis. Several of the above compds. exhibited antimicrobial activity.
 IT 83277-51-4P 83277-52-5P
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. and antibacterial activity of)
 RN 83277-51-4 CAPLUS
 CN 9H-Carbazole, 9-(2-amino-3-methyl-1-oxobutyl)-3-nitro-, (S)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



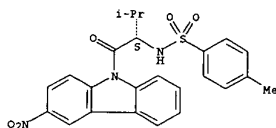
RN 83277-52-5 CAPLUS
 CN 9H-Carbazole, 9-(2-amino-4-methyl-1-oxopentyl)-3-nitro-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



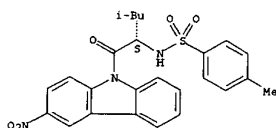
IT 83277-40-1P 83277-41-2P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and redn. and antibacterial activity of)
 RN 83277-40-1 CAPLUS
 CN 9H-Carbazole, 9-[3-methyl-2-[[[(4-methylphenyl)sulfonyl]amino]-1-oxobutyl]-3-nitro-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 83277-41-2 CAPLUS
 CN 9H-Carbazole, 9-[4-methyl-2-[[[(4-methylphenyl)sulfonyl]amino]-1-oxopentyl]-3-nitro-, (S)- (9CI) (CA INDEX NAME)

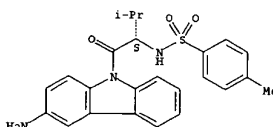
Absolute stereochemistry.



IT 83277-48-9P 83277-49-0P 83277-53-6P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

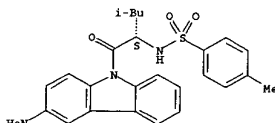
RN 83277-48-9 CAPLUS
 CN 9H-Carbazol-3-amine, 9-[3-methyl-2-[[[(4-methylphenyl)sulfonyl]amino]-1-oxobutyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

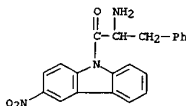


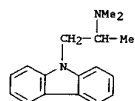
RN 83277-49-0 CAPLUS
 CN 9H-Carbazol-3-amine, 9-[4-methyl-2-[[[(4-methylphenyl)sulfonyl]amino]-1-oxopentyl]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 83277-53-6 CAPLUS
 CN 9H-Carbazole, 9-(2-amino-1-oxo-3-phenylpropyl)-3-nitro- (9CI) (CA INDEX NAME)

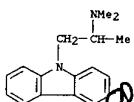




IT 55491-55-9
 RL: RCT (Reactant)
 (reaction of, with silver oxide)
 RN 55491-55-9 CAPLUS
 CN 9H-Carbazole-9-ethanamine, N,N,.alpha.-trimethyl-, compd. with iodomethane (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 55491-54-8
 CMF C17 H20 N2



CM 2

CRN 74-88-4
 CMF C H3 I

H3C- I

L7 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1975:428684 CAPLUS
 DOCUMENT NUMBER: 83:28684
 TITLE: Cyclodimerization, polymerization, and copolymerization of N-vinylcarbazole photoinduced by Rhodamine 6G
 AUTHOR(S): Crellin, R. A.; Ledwith, A.
 CORPORATE SOURCE: Donnan Lab., Univ. Liverpool, Liverpool, Engl.
 SOURCE: Macromolecules (1975), 8(2), 93-101
 CODEN: MAMOBX
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Rhodamine 6G (I) [989-38-8] was an efficient photosensitizer for the cyclodimerization of N-vinylcarbazole (II) [1484-13-5] in alcs. and benzene in the presence of a suitable cooxidant such as oxygen [7782-44-7], copper(II) heptanoate [55524-45-3], or chloranil [118-75-2].
 In the absence of cooxidants, poly(N-vinylcarbazole) [25067-59-8] was produced by a free radical mechanism. Copolym. of II with Me methacrylate occurred simultaneously with II cyclodimerization in mxts. contg. dissolved O, but the quantum efficiency for polymn. initiation was <1% of that for the cyclodimerization. The effects of additives and II on I fluorescence correlated with retardation effects on the cyclodimerization, and it was concluded that this process was initiated by an overall electron transfer from II to the singlet excited I mol. The comparatively inefficient initiation process leading to radical polymn. resulted from a competing pathway involving triplet excited I. I fluorescence was quenched by both cis [20565-99-5] and trans-N-propenylcarbazole [20566-00-1] but only the latter was reactive in photoinduced cyclodimerizations or polymns., suggesting, since the cis compd. was nonplanar, that quenching occurred by an encounter complex which underwent relaxation or solvent reorganization before generation of the fully oxidized and reduced reactant pair.
 IT 55491-54-8
 RL: RCT (Reactant)
 (reaction of, with methyl iodide)
 RN 55491-54-8 CAPLUS
 CN 9H-Carbazole-9-ethanamine, N,N,.alpha.-trimethyl- (9CI) (CA INDEX NAME)

L7 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1975:171007 CAPLUS
 DOCUMENT NUMBER: 82:171007
 TITLE: 1-Amino-3-phenoxy-2-propanols
 INVENTOR(S): Wiedemann, Fritz; Thiel, Max; Stach, Kurt; Dietmann, Karl; Sporer, Gisbert
 PATENT ASSIGNER(S): Boehringer Mannheim G.m.b.H., Ger.
 SOURCE: Ger. Offen., 14 pp.
 CODEN: GWXXRX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

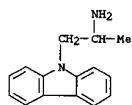
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2339396	A1	19750220	DE 1973-2339396	19730803
DE 2339396	C2	19840628		
US 3998810	A	19761221	US 1974-487423	19740710
US 487423	A1	19760302		
CA 1037039	A1	19780822	CA 1974-205557	19740724
GB 1408261	A	19751001	GB 1974-33401	19740729
NL 7410220	A	19750205	NL 1974-10220	19740730
NL 176261	B	19841016		
NL 176261	C	19850318		
JP 50041829	A2	19750416	JP 1974-87432	19740730
JP 58043388	B4	19830927		
AU 7471808	A1	19760205	AU 1974-71808	19740730
CH 605640	A	19781013	CH 1974-10495	19740730
FI 7402296	A	19750204	FI 1974-2296	19740731
FI 59585	B	19810529		
FI 59585	C	19810910		
ES 428818	A1	19760816	ES 1974-428818	19740731
FR 2239994	A1	19750307	FR 1974-26716	19740801
ZA 7404923	A	19750924	ZA 1974-4923	19740801
AT 7406313	A	19761215	AT 1974-6313	19740801
AT 338274	B	19770810		
SE 7409989	A	19750204	SE 1974-9989	19740802
SE 421693	B	19820125		
SE 421693	C	19820506		
US 4029783	A	19770614	US 1975-638874	19751208
AT 7606138	A	19761215	AT 1976-6138	19760818
AT 338280	B	19770810		

PRIORITY APPLN. INFO.:
 DE 1973-2339396 A 19730803
 US 1974-487423 A3 19740710
 AT 1974-6313 A 19740801

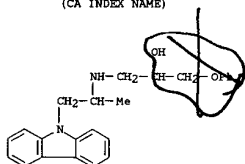
GI For diagram(s), see printed CA Issue.
 AB Eleven propanols I (R = R1 = H; or RR1 = chem. bond, S, or CH2CH2; R2 = H or Me; Z = CH2CH2, (CH2)3, CH2CHMe, or CH2CH(OH)CH2) or their fumarates were prepd. and useful as cardiac and circulation-stimulating drugs (no data). Thus, 5-(2-aminoethyl)-10,11-dihydrodibenz[b,f]azepine and 1,2-epoxy-3-phenoxypropane were heated at 170.degree. to give 32.78 I (RR1

provided out, but H.V. Me. X. wholly unsaturated.

L7 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
= CH₂CH₂, R₂ = H, Z = CH₂CH₂. Heating 5-(2,3-epoxypropyl)-10,11-dihydroindenz[b,f]azepine and H₂NCH₂CH(OH)CH₂OPh at 160.degree. gave
258 I [R₁ = CH₂CH₂, R₂ = H, Z = CH₂CH(OH)CH₂].
IT 56080-21-89
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction with epoxyphenoxypropane)
RN 56080-21-8 CAPLUS
CN 9H-Carbazole-9-ethanamine, .alpha.-methyl- (9CI) (CA INDEX NAME)



IT 56080-22-99
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 56080-22-9 CAPLUS
CN 2-Propanol, 1-[[2-(9H-carbazol-9-yl)-1-methylethyl]amino]-3-phenoxy-
(9CI) (CA INDEX NAME)



L7 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
oil. This was dissolved in abs. EtOH, dry HCl passed until the
soln. was strongly acidic, and Et₂O added to ppt. 46.7% 1-(.gamma.-
dimethylaminoethyl)-2,3-hexamethylenindole-HCl (VII), m.
146-7.degree. (EtOH-AcOEt). (This is procedure B). II (0.1 mole) and 0.12 mole
48% NaH in 100 cc. DMF was stirred and warmed to 40.degree., 0.1 mole
dimethylaminoethyl chloride added, the mixt. stirred at
40.degree. 6 hrs., and the suspension poured into 250 cc. ice water and acidified
with concd. HCl to give 50.5% 1-(.beta.-dimethylaminoethyl)-2,3-
pentamethylenindole-HCl, m. 189-90.degree. (abs. EtOH). A soln. of
0.1 mole II was treated with NaH in 100 cc. DMF as described. To this
stirred suspension, 0.1 mole freshly distd. 1-(.beta.-chloroethyl)piperidine
(VIII) was added, the mixt. kept 16 hrs., poured into 300 cc. ice
water, acidified with concd. HCl, and extd. with Et₂O, the aq. soln.
basified with 40% NaOH, the oil that sepd. taken up in Et₂O, the Et₂O soln.
washed with satd. NaCl soln., dried, and evapd., the residual oil dissolved
in 50 cc. EtOH, dry HCl passed through, and Me₂CO added until crystn.
occurred to give 43.8%
1-(.beta.-piperidinoethyl)-2,3-pentamethylenindole-HCl, m.
209-10.degree.. (This is procedure C). A soln. of 0.1 mole II was
converted to the Na deriv. using 0.12 mole 48% NaH in 150 cc. DMF,
0.1 mole freshly distd. diethylaminoethyl chloride was added dropwise,
the mixt. stirred at 50.degree. 6 hrs. and poured into 33 cc. ice water,
15-20 cc. concd. HCl added, the aq. soln. extd. with Et₂O several times,
the aq. layer basified, the product taken up in Et₂O, and the Et₂O soln.
washed with satd. aq. NaCl, dried, and evapd. in vacuo to give the free base
which was dissolved in 50 cc. iso-PrOH and 4.8 g. fumaric acid in
200 cc.
iso-PrOH added to give 34.5% 1-(.beta.-diethylaminoethyl)-2,3-
pentamethylenindole fumarate, m. 187-8.degree. (iso-PrOH); the free
base
methiodide m. 186-7.degree.. A suspension of 0.1 mole of the Na
deriv. of
II in 150 cc. DMF was treated with 0.1 mole freshly distd.
4-(.beta.-chloroethyl)morpholine (IX) at 50.degree. 6 hrs., the mixt.
poured into 300 cc. ice water, 15-20 cc. concd. HCl added, the mixt.
extd.
several times with Et₂O, and the aq. phase sepd. and allowed to
stand to
give 71.6% 1-(.beta.-morpholinoethyl)-2,3-pentamethylenindole-HCl, m.

L7 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 19655679 CAPLUS
DOCUMENT NUMBER: 68:95679
TITLE: Method of treating depression
INVENTOR(S): Rice, Leonard M.; Freed, Meier E.
PATENT ASSIGNEE(S): American Home Products Corp.
SOURCE: U.S., 7 pp.
CODEN: US56AM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

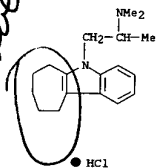
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3329571		19670704	US	19650203

G1 For diagram(s), see printed CA Issue.
AB Depression in humans is improved using I. A soln. of 0.1 mole
2,3-pentamethylenindole (II) in 100 cc. HCONMe₂ (DMF) was added
slowly to
0.12 mole NaH (6 g. 48% dispersion) suspended in 50 cc. DMF by
vigorous
stirring, the temp. slowly raised to 30-5.degree. until H evolution
ceased, 0.1 mole freshly distd. .gamma.-dimethylaminoethyl chloride
(III)
added to the suspension, the mixt. stirred and heated to 50.degree. 6
hrs., poured into 300 cc. ice water, and extd. with Et₂O, the Et₂O
layers
worked up, and the residue in abs. EtOH treated with dry HCl to give
1-(.gamma.-dimethylaminoethyl)-2,3-pentamethylenindole-HCl (IV), m.
207-8.degree. (EtOH-Me₂CO). (This is procedure A). The free base was
prepd. from 0.1 mole II and 0.1 mole III as described. The reaction
mixt.
was poured into ice water, the oil layer extd. with Et₂O, the Et₂O
soln.
washed with aq. NaCl soln. several times with 100-cc. portions 2N
HCl, the
aq. acid soln. basified with NaOH, the oil extd. with Et₂O, and the
Et₂O
soln. washed with aq. NaCl, dried, and evapd. to give the free base
(V)
corresponding to IV as a viscous yellow oil, b_{0.1} 180-3.degree.;
maleate
m. 101-2.degree. (CH₂Cl₂-Et₂O); V methiodide, m. 186-7.degree.. III
(0.1
mole) was added to a well-stirred suspension of 0.1 mole of the Na
deriv.
of 2,3-hexamethylenindole (VI) in 150 cc. DMF. After 6 hrs., the
reaction
mixt. was poured into 500 cc. ice water, the oil layer extd. with
Et₂O,
the Et₂O soln. washed with H₂O, extd. with N HCl until acidic, and
then
with H₂O, the aq. soln. washed with Et₂O, basified, and extd. with
Et₂O,
and the Et₂O soln. washed with H₂O, dried, and evapd. to give an
orange

L7 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
181-2.degree. (dil. HCl). A suspension of 0.1 mole of the Na deriv.
of II
was treated with 0.1 mole freshly distd.
1-(.beta.-chloroethyl)pyrrolidine
(X) at 50.degree. 6 hrs., the mixt. poured into 300 cc. ice water,
15-20
cc. concd. HCl added, this mixt. extd. several times with Et₂O, the
aq.
layer basified, the product taken up in Et₂O, and the Et₂O soln.
worked
up to give 9 g. 1-(.beta.-pyrrolidinoethyl)-2,3-pentamethylenindole b_{0.2}
193-6.degree.; fumarate m. 244-5.degree.. Acrylonitrile (0.20 mole)
was
added slowly with cooling to a soln. of 0.2 mole II and 4 cc.
trimethylbenzylammonium methiodide (40% in MeOH) in 100 cc. C₆H₆. The
reaction temp. reached 50.degree. and dropped slowly. The mixt. was
stirred and addnl. hr., 5 cc. concd. HCl added, and the C₆H₆ soln.
worked
up to give 56.6% 1-(.beta.-cyanoethyl)-2,3-pentamethylenindole (XI),
m.
95-6.degree. (Me₂CO-MeOH). (This is procedure D). A soln. of 0.1
mole XI
in 100 cc. dry C₆H₆ was added slowly to a stirred suspension of 0.15
mole
LiAlH₄ in 500 cc. dry Et₂O, the mixt. heated to reflux and stirred
overnight, 30 cc. H₂O added slowly with cooling, the mixt. kept one
hr.
and filtered, and the filtrate evapd. to give 81.5% 1-(.gamma.-
aminopropyl)-2,3-pentamethylenindole, b_{0.7} 190-2.degree.; HCl salt m.
271-2.degree. (MeOH-Me₂CO). (This is procedure E). Also,
1-(.gamma.-dimethylaminoethyl)-2,3-pentamethylenindole was
prepd. from 0.05 mole of the 5-fluoro deriv. of II and 0.05 mole III
using
procedure A. The free base b_{0.3} 178-80.degree.; HCl salt m.
177-80.degree.. Also,
1-(.gamma.-dimethylaminoethyl)-2,3-pentamethylenindole
5-chloroindole was prepd. from 0.5 mole of the 5-chloro deriv. of II
and
6.08 g. III using procedure A. The base b_{0.05} 185-8.degree. (62.5%
yield); fumarate salt m. 141-2.degree..
1-(.beta.-Dimethylaminoethyl)-2,3-
pentamethylenindole was prepd. from 0.05 mole II and 0.05 mole
.beta.-dimethylaminoethyl chloride (XII) using procedure A. The base
b_{0.05} 131-6.degree.; fumarate m. 219-21.degree.. 1-(.beta.-
Dimethylaminoethyl)-2,3-hexamethylenindole was prepd. from 9.96 g. VI
and
5.38 g. XII using procedure B. The free base b_{0.3} 180-3.degree.;
fumarate
m. 198.5-201.0.degree..
1-(.beta.-Piperidinoethyl)-2,3-hexamethylenindole
was prepd. from 0.05 mole VI and 0.5 mole VII using procedure C. The
fumarate m. 224.0-4.5.degree. (decompn.).
1-(.gamma.-Dimethylaminoethyl)-
2,3-tridecamethylenindole was prepd. from 0.03 mole 2,3-
tridecamethylenindole and 0.03 mole III using procedure A. The
fumarate

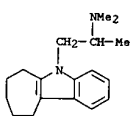
L7 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
 m. 147.5-49.0.degree.. II (0.05 mole) was treated with 0.05 mole
 N,N-dimethyl-beta-phenyl-beta-chloroethylamine using procedure
 A. The free base m. 120-2.degree.. fumarate m. 195-7.degree..
 1-(gamma-(4-methyl-1-piperazinyl)propyl)-2,3-pentamethylenindole
 was
 prep'd. from 0.027 mole II and 0.027 mole 1-methyl-4-(gamma-
 chloropropyl)piperazine (XIII) using procedure A. The difumarate m.
 217.5-18.5.degree.. Treatment of 0.0276 mole VI with 0.0276 mole
 XIII
 using procedure A gave
 1-(gamma-(4-methyl-1-piperazinyl)propyl)-2,3-
 hexamethylenindole-2-HCl, m. 239-42.degree.; difumarate m.
 216-17.degree..
 Also,
 1-(gamma-dimethylaminopropyl)-2,3-pentamethylene-5-nitroindole was
 prep'd. from 0.02 mole of the 5-nitro deriv. of II and 0.02 mole III
 using
 procedure A. The free base m. 77.5-80.0.degree.; HCl salt m.
 220-3.degree.; fumarate (XIV) m. 178-80.degree..
 1-(beta-cyanoethyl)-
 2,3-hexamethylenindole (XV) was prep'd. from 0.5 mole VI, 0.55 mole
 acrylonitrile, and 2 cc. trimethylbenzylammonium methoxide using
 procedure
 D. XV (0.107 mole) was converted to 1-(gamma-aminopropyl)-2,3-
 hexamethylenindole (XVI), b0.1 162-5.degree., n20D 1.5959, using
 procedure
 E. XIV (0.01 mole) was dissolved in 100 cc. MeOH and hydrogenated
 over
 100 mg. PtO2 at 45 psi. and 75.degree.. After 4 hrs., the catalyst
 was
 filtered off, the solvent evap'd. in vacuo, the residue taken up in
 H2O,
 the mixt. basified with 10% NaOH and ext'd. with Et2O, and the Et2O
 phase
 worked up and treated with dry HCl to give
 1-(gamma-dimethylaminopropyl)-
 2,3-pentamethylene-5-aminindole-HCl, m. 260-1.degree. (iso-PrOH).
 To a
 soln. of 0.045 mole XVI in 50 cc. MeOH, 0.1 mole ethylene oxide was
 added
 slowly. After 2 days, the MeOH was evap'd. and the residue dist'd.
 to give
 77.5%
 1-(gamma-bis(2-hydroxyethyl)-aminopropyl)-2,3-hexamethylenindole,
 b0.001 245-50.degree.. Using procedure A, 0.025 mole 2,3-
 octamethylenindole was treated with 0.025 mole III. The fumarate m.
 174-6.degree. (decompn.). II (0.03 mole) was treated with 0.033
 mole XIII
 using procedure A to give 1-(gamma-piperazinopropyl)-2,3-
 pentamethylenindole; difumarate m. 172-4.degree.. VI (0.05 mole) was
 treated with 0.05 mole IX using procedure A to give 1-(beta-
 morpholinoethyl)-2,3-hexamethylenindole; fumarate m. 174-6.degree..
 Using
 procedure A, 0.04 mole VI was treated with 0.04 mole X to give
 1-(beta-pyrrolidinoethyl)-2,3-hexamethylenindole; fumarate m.

L7 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



L7 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
 231-3.degree.. XI (0.17 mole) dissolved in 300 cc. abs. EtOH was
 sat'd.
 with dry HCl, 2 cc. H2O added and the mixt. refluxed 2 hrs., cooled to
 room temp., the sepd. NH4Cl filtered, the filtrate conc'd. in vacuo,
 the
 residue taken up in Et2O, and the Et2O ext. worked up to yield 31 g.
 1-(beta-carbomethoxyethyl)-2,3-pentamethylenindole (XVII), b0.05
 220-5.degree.. (This is procedure F). XVII (0.11 mole) in 200 cc.
 dry
 Et2O was added slowly to a stirred suspension of 0.05 mole LiAlH4 in
 200
 cc. dry Et2O, the reaction mixt. refluxed 4 hrs. and cooled, 12 cc.
 H2O
 added dropwise, and then 50 cc. iso-PrOH, the suspension filtered,
 and the
 filtrate conc'd. to yield 82.3% 1-(gamma-hydroxypropyl)-2,3-
 pentamethylenindole, b0.05 210-15.degree.. Then, 0.02 mole of the
 above
 comp'd., 10 cc. 48% aq. HBr, and 2 cc. conc'd. H2SO4 was refluxed 1.5
 hrs.,
 cooled, poured onto ice, and ext'd. with Et2O to give 2.8 g.
 1-(gamma-bromopropyl)-2,3-pentamethylenindole, b0.05 185-90.degree..
 Then, a mixt. of 0.026 mole this comp'd. and 0.03 mole N-(beta-
 hydroxyethyl)piperazine in 100 cc. xylene was refluxed 24 hrs.,
 cooled,
 and worked up and dry HCl added to ppt. 1-(gamma-(4-(beta-
 hydroxyethyl)piperazinopropyl)-2,3-pentamethylenindole-HCl, m.
 209-10.degree. (EtOH). Using procedure A, the 5-methyl deriv. of II
 was
 treated with III to give 1-(gamma-dimethyl-aminopropyl)-2,3-
 pentamethylene-5-methylindole fumarate, m. 141.5-5.0.degree.. XV was
 converted to 1-(beta-carbomethoxyethyl)-2,3-hexamethylenindole, m.
 62-4.degree., using procedure F with 1250 cc. MeOH and 5 cc. H2O.
 This
 comp'd. (10 g.) in 50 cc. MeOH sat'd. at 0.degree. with MeNH2 was kept
 at
 room temp. 48 hrs. to give 1-(beta-methylcarbomylethyl)-2,3-
 hexamethylenindole, m. 115-16% (MeOH). Then, 11 g. of this product
 in 500
 cc. C6H6 was treated with 10 g. LiAlH4 in 1 l. dry Et2O and the mixt.
 decomp'd. with 25 cc. H2O to yield 1-(gamma-methylaminopropyl)-2,3-
 hexamethylenindole, b0.1 160-70.degree.; HCl salt m. 180-1.degree..
 The
 results of clinical tests of VII were given
 IT 21283-91-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 21283-91-0 CAPLUS
 CN Cyclohept[b]indole,
 5-[2-(dimethylamino)propyl]-5,6,7,8,9,10-hexahydro-,
 monohydrochloride (8CI) (CA INDEX NAME)

L7 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1964:425255 CAPLUS
 DOCUMENT NUMBER: 61:25255
 ORIGINAL REFERENCE NO.: 61:4300f-g
 TITLE: Antidepressant agents. Derivatives of
 2,3-polymethylenindoles
 AUTHOR(S): Rice, Leonard M.; Hertz, Elisabeth; Freed, Meier
 E.
 CORPORATE SOURCE: Wyeth Labs., Philadelphia, PA
 SOURCE: J. Med. Chem. (1964), 7(3), 313-19
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB A series of substituted 2,3-(polymethylene)indoles was prep'd. from
 phenylhydrazines and alicyclic ketones by the Rogers-Carson
 modification
 (CA 42, 1261a) of the Fischer indole syntheses or by the method of
 Buu Hoi
 (CA 44, 7307c). Alkylation of the Na deriv. of the
 (polymethylene)indoles
 with dialkylaminoalkyl chlorides gave N-alkyl derivs. The Na derivs.
 were
 prep'd. by treating the indoles in HCONMe2 with 48% NaH mineral oil
 with
 HCONMe2 as solvent. The compds. were tested for central nervous
 system
 activity and weight loss activity. Some were active as
 antidepressants.
 In the weight loss test,
 5(3-dimethylaminopropyl)-6,7,8,9,10,11-hexahydro-
 5H-cyclooct[b]indole was the most active. The compds. are in the
 same
 psychopharmacol. family as imipramine.
 IT 100149-95-9, Cyclohept[b]indole, 5-[2-(dimethylamino)propyl]-
 5,6,7,8,9,10-hexahydro-, hydrochloride 101058-93-9,
 5H-Cyclooct[b]indole,
 5-[2-(dimethylamino)propyl]-6,7,8,9,10,11-hexahydro-
 , fumarate
 (prepn. of)
 RN 100149-95-9 CAPLUS
 CN Cyclohept[b]indole,
 5-[2-(dimethylamino)propyl]-5,6,7,8,9,10-hexahydro-,
 hydrochloride (7CI) (CA INDEX NAME)

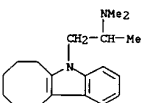


•x HCl

RN 101058-93-9 CAPLUS
CN 5H-Cyclooct[b]indole,
5-[2-(dimethylamino)propyl]-6,7,8,9,10,11-hexahydro-
, fumarate (7CI) (CA INDEX NAME)

CN 1

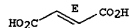
CRN 101058-92-8
CHF C19 H28 N2



CN 2

CRN 110-17-8
CHF C4 H4 O4

Double bond geometry as shown.



L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
(from 3-chloro-7-methoxythianaphtheno[3,2-b]indole, m. above 300.degree.);
3-chloro-7-methoxy-10-(2-dimethylaminopropyl) analog (free base), m. 174-6.degree. (the HCl salt m. 282-5.degree.) (made from 3-chloro-7-ethoxythianaphtheno[3,2-b]indole, m. 295-300.degree.); the 3-chloro-7-ethoxy-10-(3-dimethylaminopropyl) analog HCl salt, m. 292-4.degree.; the 7-chloro-10-(2-piperidinoethyl) analog, m. 273-8.degree.; the 7-chloro-10-(2-morpholinoethyl) analog, m. 288-92.degree.; the methochloride of the 7-chloro-10-(2-dimethylaminopropyl) analog (free base), m. 247-50.degree.; the 10-(2-dimethylaminopropyl) analog HCl salt, m. 202-6.degree.; the 7-chloro-9-methyl-10-(2-dimethylaminopropyl) analog, m. 252-5.degree. (from 7-chloro-9-methylthianaphtheno[3,2-b]indole, m. 168-72.degree.); the 3,7-dimethoxy-10-(2-dimethylaminopropyl) analog, m. 244-6.degree. (from 3,7-dimethoxythianaphtheno[3,2-b]indole, m. 253-5.degree.); the free base (m. 105-8.degree.) of 7-chloro-10-(2-dimethylaminopropyl) analog (the methanesulfonate m. 162-3.degree.; tartrate softens at 75.degree.; sulfate m. 197-8.degree.); the 7-chloro-3-methoxy-10-(2-dimethylaminopropyl) analog, m. 225-9.degree. (from 7-chloro-3-methoxythianaphtheno[3,2-b]indole, m. 232-4.degree.); the 3-nitro-10-(2-diethylaminoethyl) analog, m. 258-9.degree. (the free base m. 8890.degree.); the 10-(2-diethylaminoethyl) analog, m. 191-3.degree. (from 3-chloro-10-(2-dimethylaminopropyl) analog, m. 245.degree. (decompn.) (front 3-chlorothianaphtheno[3,2-b]indole, m. 281-3.degree.); the 8-chloro-10-(2-dimethylaminopropyl) analog, m. 255 6.degree. (decompn.); the 6-chloro-10-(2-dimethylaminopropyl) analog, m. 256-9.degree.; the 6-chloro-10-(3-dimethylaminopropyl) analog, m. 172-6.degree.; the 8-methyl-10-(2-dimethylaminopropyl) analog, m. 204-5.degree.; the 10-[3-(N-cyclopentyl-N-methylamino)propyl] analog, m. 200-4.degree. (from 7-chloro-10-(2-ethylaminoethyl) analog, m. 310-14.degree.); the 7-methoxy-10-(2-piperidinoethyl) analog, m. 258-61.degree.; the 7-bromo-10-(2-dimethylaminopropyl) analog, m. 257-8.degree. (decompn.) (from 6-bromo-3-hydroxythianaphthene, m. 158-60.degree.; 7-bromothianaphtheno[3,2-b]indole, m. 280-2.degree.); the 2,7-dichloro-10-(2-dimethylaminopropyl) analog, m. 267-70.degree. (from 2,7-dichlorothianaphtheno[3,2-b]indole, m. 237-9.degree.); the 2-chloro-10-(2-dimethylaminopropyl) analog, m. 182-4.degree.; the 2-chloro-10-(3-dimethylaminopropyl) analog, m. 261-3.degree.; the 2-chloro-10-(2-piperidinoethyl) analog, m. 264-6.degree.; the 4-chloro-10-(2-dimethylaminopropyl) analog, m. 225-7.degree.; the 4-chloro-10-(2-piperidinoethyl) analog, m. 284-6.degree. (from 4-chlorothianaphthene, m. 164-6.degree.); the 8-bromo-10-(2-dimethylaminopropyl) analog, m. 260-2.degree. (from 8-bromothianaphtheno[3,2-b]indole, m. 223-5.degree.); the 8-fluoro-10-(2-dimethylaminopropyl) analog, m. 258-7.degree. (from p-fluorophenylthioglycolic acid, m. 62-4.degree. and 8-

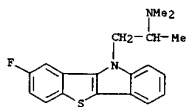
L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1962:442865 CAPLUS
DOCUMENT NUMBER: 57:42865
ORIGINAL REFERENCE NO.: 57:8580f-i,8581a-i
TITLE: Thianaphtheno[3,2-b]indoles
INVENTOR(S): Werner, Lincoln H.
PATENT ASSIGNMENT(S): Ciba Pharmaceutical Products, Inc.
SOURCE: 10 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3024248		19620306	US	19560918

GI For diagram(s), see printed CA issue.
AB The patent is concerned with 10-RX-thianaphtheno[3,2-b]indoles having a nucleus of the formula I, wherein X is a lower hydrocarbon and R is an amino group, and also with the salts and quaternary ammonium compds. The compds. are antihistaminics and also have anesthetic and antifungal effects. The compds. may be prep. by the reaction of a 10-unsubstituted thianaphtheno[3,2-b]indole with an amino(lower alkyl) chloride. For example, 7-chlorothianaphtheno[3,2-b]indole (5.16 g.) is suspended in 30 ml. toluene. Sodamide (0.8 g.) is added and the mixt. is stirred with refluxing 4 hrs. A soln. of 2.72 g. 2-diethylaminoethyl chloride in toluene is added and stirring and refluxing continued 3 more hrs. The mixt. is cooled to room temp. and filtered. The filtrate is evap. to dryness, the oily residue is dissolved in ethyl acetate and treated with anhyd. HCl to ppt. the hydrochloride of 7-chloro-10-(2-diethylaminoethyl)thianaphtheno[3,2-b]indole, m. 213-15.degree. (iso-PrOH). The starting material, 7-chlorothianaphtheno[3,2-b]indole, m. 269-70.degree., is obtained as follows: 27 g 6-chloro-3-hydroxythianaphthene is dissolved in 100 ml. glacial acetic acid. Phenyl-hydrazine (16 g.) is added slowly with stirring at 80.degree.. Heating is continued 30 min. The product seps. The mixt. is cooled and the product filtered off. Also prep. were 7-chloro-10-(2-dimethylaminopropyl)thianaphtheno[3,2-b]-indole-HCl, m. 262-4.degree.; the 7-chloro-10-(2-dimethylaminoethyl) analog, m. above 275.degree.; the 7-chloro-10-(3-diethylaminopropyl) analog, m. 185-7.degree.; the 7-chloro-10-(3-dimethylaminopropyl) analog, m. above 275.degree.; the 7-chloro-10-(2-methoxy-10-(2-dimethylaminopropyl) analog, m. 272-4.degree.; the 7-methoxy-10-(2-dimethylaminopropyl) analog, m. 275-7.degree.; the 7-ethoxy-10-(2-dimethylaminopropyl) analog, m. 295-7.degree.; the 7,7-dichloro-10-(3-dimethylaminopropyl) analog, m. above 275.degree. (from 3,7-dichlorothianaphtheno[3,2-b]indole, m. 260-2.degree.); the 3-chloro-7-methoxy-10-(2-dimethylaminopropyl) analog, m. 270-2.degree.

L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
fluorothianaphtheno[3,2-b]indole, m. 239-41.degree.; the 7,8-dichloro-10-(2-dimethylaminopropyl) analog, m. 267-9.degree. (from 3,4-dichlorothiophenol, b.p. 25 76-8.degree., acid, m. 71-2.degree., 7,8-dichlorothianaphtheno[3,2-b]indole, m. 247-9.degree.); the d-tartrate of 7-methoxy-10-(5-diethylamino-2-pentyl)thianaphtheno[3,2-b]indole, which liquifies at 80-5.degree. (from N'-phenyl-N'-(5-diethylamino-2-pentyl)hydrazine, b.p. 135-42.degree.; the 3-amino-10-(2-diethylaminoethyl) analog HCl salt, m. 214.degree. (decompn.); the 7-fluoro-10-(2-dimethylaminopropyl) analog, m. 267-71.degree. (decompn.) (front m-fluorophenylthioglycolic acid, m. 75-7.degree., 6-fluoro-3-hydroxythianaphthene, m. 92-5.degree., 7-fluorothianaphtheno[3,2-b]indole, m. 261-4.degree.); the tartrate of 7-methoxy-10-(6-piperidinoethyl)thianaphtheno[3,2-b]indole, m. 81-5.degree.; the 10-(3-dimethylaminopropyl) analog HCl salt, m. 189-90.degree.; the 9-chloro-10-(2-dimethylaminopropyl) analog, m. 252-5.degree. (from 9-chlorothianaphtheno[3,2-b]indole, m. 124-8.degree.); the 8,9-dichloro-10-(2-dimethylaminopropyl) analog, m. 272-4.degree. (from 7,8-dichlorothianaphtheno[3,2-b]indole, m. 247-9.degree., and 8,9-dichlorothianaphtheno[3,2-b]indole, m. 188-90.degree.); and the d tartrate of 8-methyl-10-(2-dimethylaminopropyl)thianaphtheno[3,2-b]indole, m. 115.degree. (decompn.).
IT 437-65-0, 10H-[1]Benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-8-fluoro-, hydrochloride 437-66-1, 10H-[1]Benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-7-fluoro-, hydrochloride 98783-33-6, 10H-[1]Benzothieno[3,2-b]indole, 8-bromo-10-[2-(dimethylamino)propyl]-, hydrochloride 98783-34-7, 10H-[1]Benzothieno[3,2-b]indole, 8-bromo-10-[2-(dimethylamino)propyl]-, hydrochloride 98862-13-6, 10H-[1]Benzothieno[3,2-b]indole, 8,9-dichloro-10-[2-(dimethylamino)propyl]-, hydrochloride 98883-46-6, 10H-[1]Benzothieno[3,2-b]indole, 4-chloro-10-[2-(dimethylamino)propyl]-, hydrochloride 98883-47-7, 10H-[1]Benzothieno[3,2-b]indole, 6-chloro-10-[2-(dimethylamino)propyl]-, hydrochloride 98883-48-9, 10H-[1]Benzothieno[3,2-b]indole, 7-chloro-10-[2-(dimethylamino)propyl]- 98883-51-3, 10H-[1]Benzothieno[3,2-b]indole, 8-chloro-10-[2-(dimethylamino)propyl]-, hydrochloride 98883-52-4, 10H-[1]Benzothieno[3,2-b]indole, 9-chloro-10-[2-(dimethylamino)propyl]-, hydrochloride 98999-60-1, 10H-[1]Benzothieno[3,2-b]indole, 2-chloro-10-[2-(dimethylamino)propyl]-, hydrochloride 98999-62-3, 10H-[1]Benzothieno[3,2-b]indole, 3-chloro-10-[2-(dimethylamino)propyl]-, hydrochloride 99750-74-0, 10H-[1]Benzothieno[3,2-b]indole, 7-chloro-10-[2-(dimethylamino)propyl]-9-methyl-, hydrochloride 99886-37-0, 10H-[1]Benzothieno[3,2-b]indole, 7-chloro-10-[2-(dimethylamino)propyl]-, methanesulfonate 99889-25-5, 10H-[1]Benzothieno[3,2-b]indole, 3-chloro-10-[2-

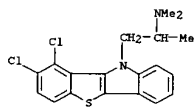
L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
 (dimethylamino)propyl]-7-ethoxy-, hydrochloride **99889-26-6**,
 10H-[1]Benzo[thieno[3,2-b]indole,
 3-chloro-10-[2-(dimethylamino)propyl]-7-
 ethoxy- **99905-65-5**, 10H-[1]Benzo[thieno[3,2-b]indole,
 7-chloro-10-[2-(dimethylamino)propyl]-3-methoxy-, hydrochloride
100000-76-8, 10H-[1]Benzo[thieno[3,2-b]indole, 3-chloro-10-[2-
 (dimethylamino)propyl]-7-methoxy- **100022-21-7**,
 10H-[1]Benzo[thieno[3,2-b]indole,
 3-chloro-10-[2-(dimethylamino)propyl]-7-
 methoxy-, hydrochloride **100198-01-5**, 10H-[1]Benzo[thieno[3,2-
 b]indole, 10-[2-(dimethylamino)propyl]-7-ethoxy-, hydrochloride
100198-12-8, 10H-[1]Benzo[thieno[3,2-b]indole, 10-[2-
 (dimethylamino)propyl]-3,7-dimethoxy-, hydrochloride **101942-65-8**
 , 10H-[1]Benzo[thieno[3,2-b]indole, 7,8-dichloro-10-[2-
 (dimethylamino)propyl]-, hydrochloride **106480-41-8**,
 10H-[1]Benzo[thieno[3,2-b]indole,
 10-[2-(dimethylamino)propyl]-7-methoxy-,
 hydrochloride **106785-31-3**, 10H-[1]Benzo[thieno[3,2-b]indole,
 10-[2-(dimethylamino)propyl]-, hydrochloride
 (pregn. of)
 RN 437-65-0 CAPLUS
 CN 10H-[1]Benzo[thieno[3,2-b]indole-10-ethanamine, 8-fluoro-N,N,.alpha.-
 trimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

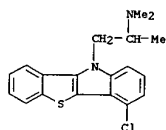
RN 437-66-1 CAPLUS
 CN 10H-[1]Benzo[thieno[3,2-b]indole-10-ethanamine, 7-fluoro-N,N,.alpha.-
 trimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CN 10H-[1]Benzo[thieno[3,2-b]indole,
 8,9-dichloro-10-[2-(dimethylamino)propyl]-
 , hydrochloride (6CI, 7CI) (CA INDEX NAME)



●x HCl

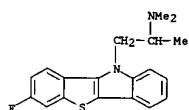
RN 98883-46-6 CAPLUS
 CN 10H-[1]Benzo[thieno[3,2-b]indole,
 4-chloro-10-[2-(dimethylamino)propyl]-,
 hydrochloride (7CI) (CA INDEX NAME)



●x HCl

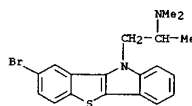
RN 98883-47-7 CAPLUS
 CN 10H-[1]Benzo[thieno[3,2-b]indole,
 6-chloro-10-[2-(dimethylamino)propyl]-,
 hydrochloride (7CI) (CA INDEX NAME)

L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



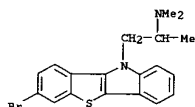
● HCl

RN 98783-33-6 CAPLUS
 CN 10H-[1]Benzo[thieno[3,2-b]indole,
 8-bromo-10-[2-(dimethylamino)propyl]-,
 hydrochloride (6CI, 7CI) (CA INDEX NAME)



●x HCl

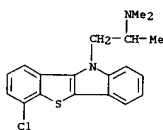
RN 98783-34-7 CAPLUS
 CN 10H-[1]Benzo[thieno[3,2-b]indole,
 7-bromo-10-[2-(dimethylamino)propyl]-,
 hydrochloride (6CI, 7CI) (CA INDEX NAME)



●x HCl

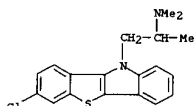
RN 98862-13-6 CAPLUS

L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

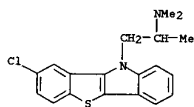


●x HCl

RN 98883-49-9 CAPLUS
 CN 10H-[1]Benzo[thieno[3,2-b]indole,
 7-chloro-10-[2-(dimethylamino)propyl]-
 (7CI) (CA INDEX NAME)



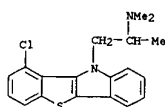
RN 98883-51-3 CAPLUS
 CN 10H-[1]Benzo[thieno[3,2-b]indole,
 8-chloro-10-[2-(dimethylamino)propyl]-
 hydrochloride (7CI) (CA INDEX NAME)



●x HCl

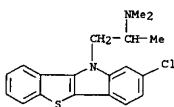
RN 98883-52-4 CAPLUS
 CN 10H-[1]Benzo[thieno[3,2-b]indole,
 9-chloro-10-[2-(dimethylamino)propyl]-,

L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
hydrochloride (7CI) (CA INDEX NAME)



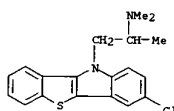
● x HCl

RN 98999-60-1 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole,
2-chloro-10-[2-(dimethylamino)propyl]-,
hydrochloride (7CI) (CA INDEX NAME)



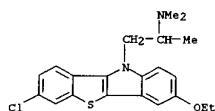
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RN 98999-62-3 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole,
3-chloro-10-[2-(dimethylamino)propyl]-,
hydrochloride (7CI) (CA INDEX NAME)



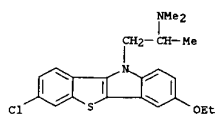
● x HCl

L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
RN 99889-25-5 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole,
3-chloro-10-[2-(dimethylamino)propyl]-7-
ethoxy-, hydrochloride (7CI) (CA INDEX NAME)

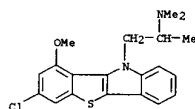


● x HCl

RN 99889-26-6 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole,
3-chloro-10-[2-(dimethylamino)propyl]-7-
ethoxy-, hydrochloride (7CI) (CA INDEX NAME)



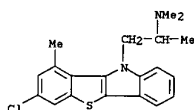
RN 99905-66-5 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole,
7-chloro-10-[2-(dimethylamino)propyl]-3-
methoxy-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



● x HCl

L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 99750-74-0 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole,
7-chloro-10-[2-(dimethylamino)propyl]-9-
methyl-, hydrochloride (6CI, 7CI) (CA INDEX NAME)

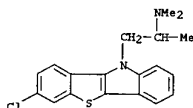


● x HCl

RN 99886-37-0 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole,
7-chloro-10-[2-(dimethylamino)propyl]-,
methanesulfonate (6CI, 7CI) (CA INDEX NAME)

CM 1

CRN 98883-49-9
CMF C19 H19 Cl N2 S



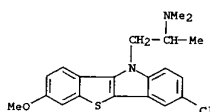
CM 2

CRN 75-75-2
CMF C H4 O3 S

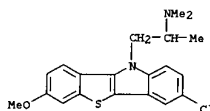


L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 100000-76-8 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole,
3-chloro-10-[2-(dimethylamino)propyl]-7-
methoxy-, hydrochloride (6CI, 7CI) (CA INDEX NAME)

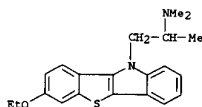


RN 100022-21-7 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole,
3-chloro-10-[2-(dimethylamino)propyl]-7-
methoxy-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



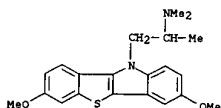
● x HCl

RN 100195-01-5 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole,
10-[2-(dimethylamino)propyl]-7-ethoxy-,
hydrochloride (6CI, 7CI) (CA INDEX NAME)



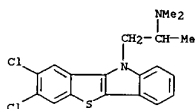
● x HCl

L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 100195-12-8 CAPLUS
 CN 10H-[1]Benzo[thieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-3,7-dimethoxy-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



● x HCl

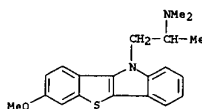
RN 101942-65-8 CAPLUS
 CN 10H-[1]Benzo[thieno[3,2-b]indole, 7,8-dichloro-10-[2-(dimethylamino)propyl]-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



● x HCl

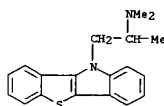
RN 106480-41-5 CAPLUS
 CN 10H-[1]Benzo[thieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-7-methoxy-, hydrochloride (6CI, 7CI) (CA INDEX NAME)

L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



● HCl

RN 106785-31-3 CAPLUS
 CN 10H-[1]Benzo[thieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-, hydrochloride (6CI, 7CI) (CA INDEX NAME)

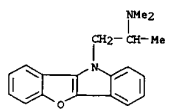


● HCl

L7 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1962:403967 CAPLUS
 DOCUMENT NUMBER: 5713967
 ORIGINAL REFERENCE NO.: 57:792h-1,793a-g
 TITLE: Benzofuro[3,2-b]indoles
 AUTHOR(S): Schroeder, D. C.; Corcoran, P. O.; Holden, C. A.; Mulligan, M. C.
 CORPORATE SOURCE: Ciba Pharm. Prods., Inc., Summit, NJ
 SOURCE: J. Org. Chem. (1962), 27, 586-91
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB Several benzofuro[3,2-b]indoles were synthesized and some of the intermediates involved investigated. O-Carboxymethylsalicylic acid (75 g.) refluxed 3.5 hrs. with 71. g. HCl in 520 ml. anhyd. alc. and 117 ml. C6H6 gave Et O-(carboxymethyl)salicylate in 89% yield, b0.1 123-8.degree.. Et bromoacetate (0.03 mole) added to 0.03 mole KOH and the appropriate Et salicylate in anhyd. alc., the mixt. refluxed 12 hrs., cooled, filtered, and the filtrate evapd. gave a solid. This material collected and recrystd. from alc. gave the following substituted Et O-carboxymethylsalicylates (5-substituent, % yield, and m.p. given): Cl, 33, 43-5.degree.; I, 37, 73-5.degree.; NO2, 76, 70-1.degree.; Br, -. The O-carboxymethylsalicylate (0.22 mole) added to 0.22 mole NaOEt in 280 ml. C6H6, the mixt. refluxed 4 hrs., cooled, poured into H2O and dil. NaOH, the layers sepd., the aq. portion treated with dil. HCl gave the product. This material was recrystd. from alc. Three 3(2H)-Benzofuranones were prepd. as follows. The 2-carboxy-3(2H)-benzofuranone (0.1 mole) was suspended in 500 ml. 5% NaOH and left at room temp. until the solid dissolved; this time varied from 1 week to 4 weeks. Dil. H2SO4 was added, the product extd. with C6H6, evapd., and the crude product recrystd. from alc. The following 3(2H)-benzofuranones were thus obtained (5,3,2-substituents, % yield, and m.p. given): H, O, H, 65, 97.degree.; Cl, O, H, 27, 114.5-16.0.degree.; I, O, H, 27, 130-1.degree.; H, O, CO2Et, 70, 60-20.degree.; Cl, O, CO2Et, 55, 126-7.degree. I, O, CO2Et, 90, 120-2.degree.. Benzofuro[3,2-b]indoles were prepd. by a known method. By limiting the batch size to 10 g. or less, the initial exothermic reaction was controlled when the benzofuranone was warmed with PhNHNH2. Benzofuro[3,2-b]indole was N-alkylated in the same manner as previously described for thianaphtho[3,2-b]indoles. The following benzofuro[3,2-b]indoles were thus obtained (substituents at 8, 2, and 10

L7 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
 positions, % yield, m.p. given): H, H, H, 90, 197-9.degree.; Cl, H, H, 25, 185-7.degree.; H, NO2, H, 4,255.degree.; H, H, CH2CH2NC2H5O, 76, 109-10.degree., H, H, CH2CHMeNMeZHC1, 27, 235-6.degree.. Monohydrazides were prepd. in predominance by adding a slight excess of N2H4.H2O to the Et O-(carboxymethyl)salicylate in alc. soln. and leaving 24 hrs. at room temp.; when the amt. of N2H4 was increased to a 2- or 3-fold excess and the time lengthened to 3 days, formation of the dihydrazide was enhanced. In both cases there was a mixt. of products, but these were sepd. by crystn. The following substituted O-(carboxymethyl)salicylic acids were thus obtained (substituents at 1, 2-OCH2COR, and 5-positions, % yield, and m.p. given): OEt, H, NHH2, 53, 117-19.degree.; OEt, NO2, NHH2, 25, 153.degree.; OEt, I, NHH2, 47, 133-5.degree.; NHH2, H, NHH2, 30, 164-5.degree.; NHH2, NO2, NHH2, 23, 174-6.degree.. Phenylhydrazide of Et O-(carboxymethyl)salicylate was prepd. in the same manner as the hydrazides, except that a reflux period of 3 hrs. was required. Although 2 equivs. of PhNHNH2 was used, only the monophenylhydrazide was isolated in 49% yield, m. 120-1.degree.. The monobenzylamide of 5-bromo-O-(carboxymethyl)salicylic acid was prepd. by the method used for the hydrazides. However, the product was sepd. in a different fashion. After completion of the reaction, H2O was added to ppt. the monoamide in 46% yield, m. 104-5.degree.. The diamide was isolated from the mother liquor in 10% yield, m. 115.degree.. The acylhydrazones were similarly prepd. A slight excess of the aldehyde was added to the hydrazide in alc., the mixt. refluxed 2-3 hrs., cooled, the product collected, and crystd. The following substituted O-(carboxymethyl)salicylic acids were obtained (R of the 1-COR, R2 of the 2-OCH2COR2, and 5-substituent, % yield, and m.p. given): OEt, NO2, NHN:CHC6H4NMe2-p, 40, 179-81.degree.; OEt, NO2, NHN:CHC5H4N-2, 93, 212-13.degree.; OEt, I, NHN:CHC6H6N-4, 77, 21718.degree.. 1-(CC13CH: NHNCO)-2-(CC13CH: NNHCOCH2O) C6H4 was obtained in 75% yield, m. 201-2.degree. from the dihydrazide with 31 g. chloral in 70 ml. iso-PrOH by heating 1.5 hrs. and recrystn. of the product from CHCl3-iso-PrOH. The following 3(2H)-benzofuranones were also obtained (5-, 3-, 2-substituents, % yield, and m.p. given): H, O, CON:NPh, 7.5, 180-1.degree.; H, :NHNPh, CO2Et, 60, 126-8.degree.; H, :NHNPh, CON:NPh, 35, 189-90.degree.; H, ONH3NH2+, CO2Et, 74, 137-8.degree.; Cl, :NHNHCONH2, CO2Et, 25, 243-4.degree.; H, :NHNPh, H, 48, 168-70.degree.; H, :NHNHCSNH2,

L7 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)
 H, 85, 176-8.degree.; I, :NNHCSNH2, H, 60, 212-13.degree..
 IT 111637-35-5, 10H-Benzofuro[3,2-b]indole, 10-[2-(dimethylamino)propyl]-, hydrochloride
 (prepn. of)
 RN 111637-35-5 CAPLUS
 CN 10H-Benzofuro[3,2-b]indole, 10-[2-(dimethylamino)propyl]-, hydrochloride
 {7C1} (CA INDEX NAME)



● HCl

=> fil reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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FULL ESTIMATED COST	79.79	265.13
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
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Experimental and calculated property data are now available. See HELP
 PROPERTIES for more information. See STNote 27, Searching Properties
 in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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(FILE 'HOME' ENTERED AT 14:39:49 ON 18 SEP 2002)

FILE 'REGISTRY' ENTERED AT 14:39:57 ON 18 SEP 2002

L1	STRUCTURE UPLOADED
L2	1027 S L1 FUL
L3	798 S L2 AND CAPLUS/LC
L4	STRUCTURE UPLOADED
L5	202 S L4 FUL SUB=L2
L6	164 S L5 AND CAPLUS/LC

L7	FILE 'CAPLUS' ENTERED AT 14:46:16 ON 18 SEP 2002
	18 S L6 FUL

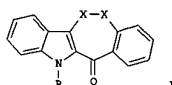
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=> s 13 not 16

L8	634 L3 NOT L6
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=> d 1-5

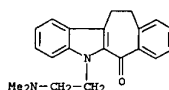
L13 ANSWER 1 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2000:863132 CAPLUS
 DOCUMENT NUMBER: 134:162888
 TITLE: Synthesis and in vitro cytotoxic evaluation of N-substituted benzo[5,6]cyclohepta[b]indoles
 AUTHOR(S): Joseph, Benoit; Alagille, David; Merour, Jean-Yves;
 CORPORATE SOURCE: Leonce, Stephane
 Universite Institut de Chimie Organique et Analytique,
 SOURCE: d'Orleans, Orleans, 45067, Fr.
 48(12), Chemical & Pharmaceutical Bulletin (2000),
 1872-1876
 PUBLISHER: CODEN: CPBTAL; ISSN: 0009-2363
 DOCUMENT TYPE: Pharmaceutical Society of Japan
 LANGUAGE: Journal
 OTHER SOURCE(S): English
 GI CASREACT 134:162888



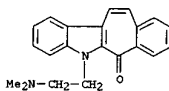
AB A new series of N-substituted benzo[5,6]cyclohepta[b]indole derivs.
 I [X-X
 = CH:CH, CH₂CH₂; R = (CH₂)₂NMe₂, (CH₂)₃NMe₂, (CH₂)₃NH(CH₂)₂OH, etc.]
 were synthesized and evaluated for in vitro cytotoxic activities against
 L1210 murine leukemia and HT29 cell lines. I showed potent antitumor
 activity and blocked cell cycle progression of L1210 cells in G₂ + M phase.
 IT 324756-91-4P 324756-93-6P 324756-99-2P
 RL: BAC (Biological activity or effector, except adverse); BSU
 (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological
 study); PREP (Preparation)
 (prepn. and cytotoxic evaluation of N-substituted
 benzo[5,6]cyclohepta[b]indoles as antitumor agents)
 RN 324756-91-4 CAPLUS
 CN Benzo[5,6]cyclohept[1,2-b]indol-6(5H)-one,
 5-[2-(dimethylamino)ethyl]-
 11,12-dihydro- (9CI) (CA INDEX NAME)

L13 ANSWER 2 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2000:784039 CAPLUS
 DOCUMENT NUMBER: 135:206
 TITLE: DNA but not topoisomerases is a target for a
 cytotoxic
 AUTHOR(S): benzo[5,6]cyclohepta[b]indol-6-one derivative
 Benoit, Joseph; Routier, Sylvain; Merour,
 Jean-Yves; Colson, Pierre; Houssier, Claude; Bailly,
 Christian
 CORPORATE SOURCE: Institut de Chimie Organique et Analytique,
 Universite
 SOURCE: d'Orleans, Orleans, 45067, Fr.
 Anticancer Research (2000), 20(5A), 3307-3314
 CODEN: ANTRD4; ISSN: 0250-7005
 PUBLISHER: International Institute of Anticancer Research
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The interaction of a newly designed benzocyclohepta[b]indol-6-one
 deriv. with
 DNA has been investigated by complementary spectroscopic techniques
 including absorption, circular and linear dichroism. Footprinting
 measurements were performed to delineate the sequence-selectivity of
 the drug-DNA interaction and a plasmid relaxation assay was used to
 study the effects of the drug on human DNA topoisomerases I and II. The
 results clearly indicated that the test compd. behaves as a typical DNA
 intercalating agent but does not stimulate DNA cleavage by
 topoisomerases.
 At the cellular level, the cytometry measurements showed that the
 drug provoked a marked accumulation of HL60 human leukemia cells in the
 G₂/M phase of the cell cycle. DNA is thus identified as a valid target
 for this new series of drugs particularly toxic to human (HL60) and
 murine (P388) leukemia cells.
 IT 324756-93-6P
 RL: BAC (Biological activity or effector, except adverse); BPR
 (Biological process); BSU (Biological study, unclassified); SPN (Synthetic
 preparation); THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); PROC (Process); USES (Uses)
 (DNA but not topoisomerases is target for cytotoxic
 benzo[5,6]cyclohepta[b]indol-6-one deriv. in leukemia cells)
 RN 324756-93-6 CAPLUS
 CN Benzo[5,6]cyclohept[1,2-b]indol-6(5H)-one,
 5-[2-(dimethylamino)ethyl]-
 (9CI) (CA INDEX NAME)

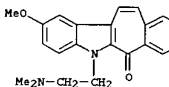
L13 ANSWER 1 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 324756-93-6 CAPLUS
 CN Benzo[5,6]cyclohept[1,2-b]indol-6(5H)-one, 5-[2-(dimethylamino)ethyl]-
 (9CI) (CA INDEX NAME)

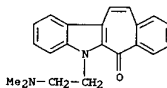


RN 324756-99-2 CAPLUS
 CN Benzo[5,6]cyclohept[1,2-b]indol-6(5H)-one,
 5-[2-(dimethylamino)ethyl]-2-
 methoxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 2 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 3 OF 99 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:633953 CAPLUS

DOCUMENT NUMBER: 132:12434

TITLE: Homoarcyriaflavin: Synthesis of Ring-Expanded Arcyriaflavin Analogues

AUTHOR(S): Mahboobi, Siavosh; Burgemeister, Thomas; Dove, Stefan;

CORPORATE SOURCE: Kuhr, Sabine; Popp, Alfred
Faculty of Chemistry and Pharmacy, University
Regensburg, Regensburg, D-93040, Germany
Journal of Organic Chemistry (1999), 64(22),

SOURCE: CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

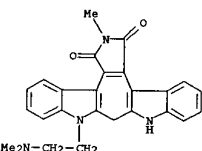
AB The construction of the ring-expanded carbazole system, forming arcyriaflavin homologues, is efficiently accomplished by the reaction of 2,2'-bridged bis-indoles with 3,4-dibromo-2,5-dihydro-1H-2,5-pyrroledione derivs. under Grignard conditions. A ring size of up to nine members in the central ring is achievable. Substitutions either at the indole system or at the imide-N are also possible. The conformation of homoarcyriaflavins as a cross-link between the rigid arcyriaflavins and the flexible arcyriarubins was investigated by NMR, X-ray, and semiempiric quantum chem. calcn. methods.

IT 249763-11-9P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (crystal structure; synthesis of ring-expanded arcyriaflavin analogs)

RW 249763-11-9 CAPLUS

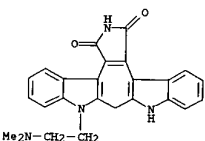
CN Pyrrolo[3',4':6,7]cyclohepta[2,1-b:4,5-b']diindole-1,3(2H,8H)-dione, 8-[2-(dimethylamino)ethyl]-9,10-dihydro-2-methyl- (9CI) (CA INDEX NAME)



Me2N-CH2-CH2

IT 249763-09-5P 249763-10-8P 249763-12-0P
RL: SPN (Synthetic preparation); PREP (Preparation)

L13 ANSWER 3 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



Me2N-CH2-CH2

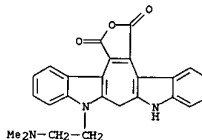
REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 3 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

(synthesis of ring-expanded arcyriaflavin analogs)

RN 249763-09-5 CAPLUS

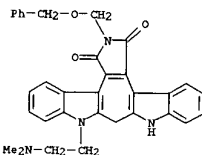
CN 1H-Puro[3',4':6,7]cyclohepta[2,1-b:4,5-b']diindole-1,3(8H)-dione, 8-[2-(dimethylamino)ethyl]-9,10-dihydro- (9CI) (CA INDEX NAME)



Me2N-CH2-CH2

RN 249763-10-8 CAPLUS

CN Pyrrolo[3',4':6,7]cyclohepta[2,1-b:4,5-b']diindole-1,3(2H,8H)-dione, 8-[2-(dimethylamino)ethyl]-9,10-dihydro-2-(phenylmethoxy)methyl- (9CI) (CA INDEX NAME)



Me2N-CH2-CH2

RN 249763-12-0 CAPLUS

CN Pyrrolo[3',4':6,7]cyclohepta[2,1-b:4,5-b']diindole-1,3(2H,8H)-dione, 8-[2-(dimethylamino)ethyl]-9,10-dihydro- (9CI) (CA INDEX NAME)

L13 ANSWER 4 OF 99 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:558054 CAPLUS

DOCUMENT NUMBER: 127:248096

TITLE: Preparation of hydrogenated pyrido[4,3-b]indole derivatives and pharmaceutical compositions and a method for treating neurodegenerative diseases

INVENTOR(S): Zefirov, Nikolai Serafinovich; Afanasiev, Andrei Zakharovich; Afanasieva, Svetlana Vasilieva;

Bachurin, Sergei Olegovich; Thachenko, Sergei Evgenievich; Grigoriev, Vladimir Viktorovich; Jurovskaya, Marina Abramovna

PATENT ASSIGNEE(S): Tsukura Sangyo K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 156 pp.
CODEN: JXXXXF

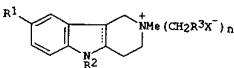
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

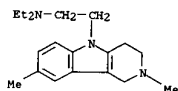
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09216882	A2	19970819	JP 1996-274909	19961017
RU 2140417	C1	19991027	RU 1995-117585	19951017
PRIORITY APPLN. INFO.:			RU 1995-117585	A 19951017
OTHER SOURCE(S):			MARPAT 127:248096	
GI				



I

AB The title derivs. I [dotted line represents an optional bond; R1 = H, lower alkyl; R2 = 2-[2-(N-methyl-N-R3-methylamino)ethyl]-5-R1-indolyl-3-Me, (CZ)m(CHAlk)l(CH2)kY [Y = H, halo, cycloalkyl, ethenyl which may be substituted with 1-3 lower alkyl, 1 aryl, CO2R4 at the .beta.-position (R4 = H, alkyl, aralkyl, aryl), OR4, alkylsulfonyl, arylsulfonyl, NR5R6 (R5-6 = H, alkyl, cycloalkyl, aralkyl, aryl, 2-, 3-, or 4-pyridyl, alkylsulfonyl, arylsulfonyl; one of R5 and R6 = COR7 (R7 = H, alkyl, alkoxy, cycloalkyl, aralkyl, aryl, 2-, 3-, or 4-pyridyl); or R5R6 = (CH2)2W(CH2)2 [W = O, (CH2)q (q = 0-2), N(CV)rR8 (R8 = H, alkyl, aryl, CV = CH2, CO, r = 0-1)] or NR5R6 = N-phthalimido], OR9 (R9 = H, alkyl, aralkyl, aryl, OR, alkoxy, NR5R6 except N-phthalimido, 2-, 3-, or 4-pyridyl), cyano, CX3 (X = Cl, F, Br), aryl, 2-, 3-, or 4-pyridyl] or their quaternary ammonium salt, trialkylammonium, cycloalkylammonium, N-azinium, N-azolium]; CZ = CO, CS, CH2; k = 0-4; l, m, n = 0-1; R3 = (CH2)kY' (Y' = any group given for Y); X = pharmacol. acceptable acid

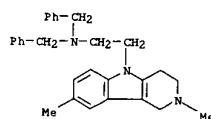
L13 ANSWER 4 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 anion] and their pharmacol. acceptable salts are prepd. by several methods. Also claimed are a method for treating diseases affecting glutamate neuromediator systems, e.g. neurodegenerative disorders, esp. Alzheimer disease, with I and pharmaceutical compns. contg. I.
 2-Methyl-8-isopropyl-2,3,4,5-tetrahydro-1H-pyrido[4,3-b]indole hydrochloride (prepd. from 4-isopropylphenylhydrazine hydrochloride and N-methyl-4-piperidone) showed ED50 17 mg/kg against convulsive death of mice induced by injection of NMDA into paracele. Pharmaceutical formulations contg. I were also given.
 IT 195326-99-9P 195327-01-6P
 RL: BAC (Biological activity or effector, except adverse); ESU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of hydrogenated pyrido[4,3-b]indole derivs. as NMDA antagonists for treating neurodegenerative diseases)
 RN 195326-99-9 CAPLUS
 CN 5H-Pyrido[4,3-b]indole-5-ethanamine, N,N-dimethyl-1,2,3,4-tetrahydro-2,8-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

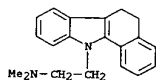
RN 195327-01-6 CAPLUS
 CN 5H-Pyrido[4,3-b]indole-5-ethanamine, 1,2,3,4-tetrahydro-2,8-dimethyl-N,N-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 4 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



● 2 HCl

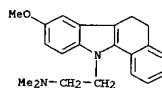
L13 ANSWER 5 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1996:568854 CAPLUS
 DOCUMENT NUMBER: 125:216768
 TITLE: Antimicrobial activity of 5,6-dihydrobenzo-[a]-carbazoles. Part II
 AUTHOR(S): Segall, Adriana; Pappa, Horacio; Pizzorno, Maria T.; Radice, Marcela; Amoroso, Ana; Gutkind, Gabriel
 O. Fac. Farm. Bioquim., Univ. Buenos Aires, Buenos Aires
 CORPORATE SOURCE: 1113, Argent.
 SOURCE: Farmaco (1996), 51(7), 513-516
 PUBLISHER: CODEN: FMRCES
 SOCIETA Chimica Italiana
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A new series of twenty-two, 5,6-dihydrobenzo[a]carbazoles was synthesized, some showing good antibacterial activity. The presence and position of substituents seems to be crit. for such activity.
 IT 4624-81-1P 181704-74-5P 181704-76-7P
 181704-79-0P 181704-81-4P
 RL: BAC (Biological activity or effector, except adverse); RPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation) (antimicrobial activity of 5,6-dihydrobenzo-[a]-carbazoles)
 RN 4624-81-1 CAPLUS
 CN 11H-Benzo[a]carbazole-11-ethanamine, 5,6-dihydro-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

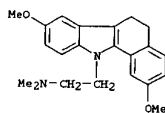
RN 181704-74-5 CAPLUS
 CN 11H-Benzo[a]carbazole-11-ethanamine, 5,6-dihydro-8-methoxy-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 5 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

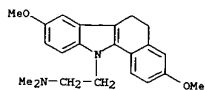


● HCl

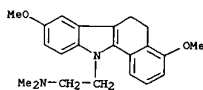
RN 181704-76-7 CAPLUS
 CN 11H-Benzo[a]carbazole-11-ethanamine, 5,6-dihydro-2,8-dimethoxy-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



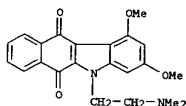
RN 181704-79-0 CAPLUS
 CN 11H-Benzo[a]carbazole-11-ethanamine, 5,6-dihydro-3,8-dimethoxy-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



RN 181704-81-4 CAPLUS
 CN 11H-Benzo[a]carbazole-11-ethanamine, 5,6-dihydro-4,8-dimethoxy-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

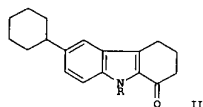
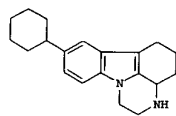


L13 ANSWER 6 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1996:187565 CAPLUS
 DOCUMENT NUMBER: 124:289169
 TITLE: Design of antineoplastic agents on the basis of the
 "2-phenylnaphthalene-type" structural pattern. 3.
 Synthesis and biological activity evaluation of
 5H-benzo[b]naphtho[2,3-d]pyrrole-6,11-dione
 derivatives
 Lu, Yi-Lin; Chou, Ting-Chao; Cheng, C. C.
 Drug Development Laboratory, University Kansas
 Medical Center, Kansas City, KS, 66160-7419, USA
 SOURCE: Journal of Heterocyclic Chemistry (1996), 33(1),
 113-17
 CODEN: JHCTAD; ISSN: 0022-152X
 PUBLISHER: HeteroCorporation
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 124:289169
 AB A no. of 5H-benzo[b]naphtho[2,3-d]pyrrole-6,11-dione derivs. were
 synthesized. Their biol. activity was compared with that of the
 corresponding benzoxazolo- and benzothiazolo-analogs.
 IT 175885-97-99
 RL: RAC (Biological activity or effector, except adverse); BSU
 (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation);
 BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and antineoplastic activity evaluation of
 5H-benzo[b]naphtho[d]pyrroledione derivs.)
 RN 175885-97-9 CAPLUS
 CN 5H-Benzo[b]carbazole-6,11-dione,
 5-[2-(dimethylamino)ethyl]-1,3-dimethoxy-
 (9CI) (CA INDEX NAME)



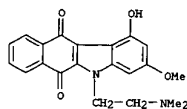
IT 175886-00-79 175886-00-59
 RL: BAC (Biological activity or effector, except adverse); BSU
 (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological
 study); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and antineoplastic activity evaluation of
 5H-benzo[b]naphtho[d]pyrroledione derivs.)
 RN 175886-00-7 CAPLUS
 CN 5H-Benzo[b]carbazole-6,11-dione,
 5-[2-(dimethylamino)ethyl]-1-hydroxy-3-

L13 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1995:780457 CAPLUS
 DOCUMENT NUMBER: 123:169663
 TITLE: Method for producing 8-cyclohexyl-2,3,3a,4,5,6-
 hexahydro-1H-pyrazino[3,2,1-j,k]carbazole
 hydrochloride and 6-cyclohexyl-9.beta.-[(N,N-
 dibenzylamino)ethyl]-3,4-dihydrocarbazol-1(2H)-one
 INVENTOR(S): Glushkov, Robert G.; Aryuzina, Vera M.; Nyrkova,
 Valentina G.; Erofeev, Yuriy V.; Shvedov,
 Vasilij I.
 PATENT ASSIGNEE(S): Vsesoyuznyi Nauchno-Issledovatel'skij
 Khimiko-Farmatsevticheskij Institut, USSR
 SOURCE: U.S.S.R. From: Izobreteniya 1993, (27), 117-18.
 CODEN: URXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Russian
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE
 SU 1830069 A3 19930723 SU 1987-4341818 19871118
 OTHER SOURCE(S): CASREACT 123:169663
 GI

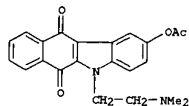


AB Title hydrochloride salt I is prepd. in 2 steps, with improved
 yield, and
 by a simpler, safer, and more economical process. The 1st step
 involves
 N-alkylation of dihydrocarbazolone II [R = H] with
 ClCH2CH2N(CH2Ph)2.HCl
 in a 2-phase system comprising an arom. hydrocarbon and a 30-40% aq.
 soln.
 of base at 85-110.degree. in the presence of a phase-transfer
 catalyst
 [various quaternary ammonium halides, or PhCH2Cl/Et3N, or DMF, or
 PEG].
 In the 2nd step, the isolated title intermediate II [R =
 CH2CH2N(CH2Ph)2]
 is hydrogenated and cyclized, using as catalyst either Pd(acac)2 or
 Pd(OH)2, supported on C, at 50-70.degree. and 1-20 atm. In the first
 step, use of toluene as a solvent is specifically claimed, as is use
 of

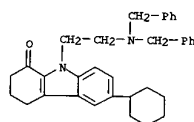
L13 ANSWER 6 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 methoxy- (9CI) (CA INDEX NAME)



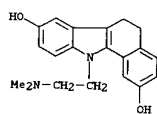
RN 175886-08-5 CAPLUS
 CN 5H-Benzo[b]carbazole-6,11-dione,
 2-(acetyloxy)-5-[2-(dimethylamino)ethyl]-
 (9CI) (CA INDEX NAME)



L13 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 PhCH2Cl/Et3N as the catalyst.
 IT 135897-71-1P
 RL: IMP (Industrial manufacture); RCT (Reactant); SPN (Synthetic
 preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; prepn. of cyclohexylhexahydropyrazinocarbazole
 hydrochloride)
 RN 135897-71-1 CAPLUS
 CN 1H-Carbazol-1-one, 9-[2-[bis(phenylmethyl)amino]ethyl]-6-cyclohexyl-
 2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)

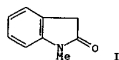


L13 ANSWER 8 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1995:506783 CAPLUS
 DOCUMENT NUMBER: 122:306047
 TITLE: Design, synthesis and antitumor activity of trisubstituted dihydrobenzo[a]carbazoles
 AUTHOR(S): Segall, A.; Pappa, H.; Casaubon, R.; Martin, G.; Bergoc, R.; Pizzorno, M. T.
 CORPORATE SOURCE: Dep. Tecnologia Farmaceutica, Univ. Buenos Aires, Buenos Aires, 1113, Argent.
 SOURCE: European Journal of Medicinal Chemistry (1995), 30(2), 165-9
 CODEN: EJMCAS; ISSN: 0223-5234
 PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The design, synthesis, binding affinities for rabbit uterus estrogen receptors and in vivo action of two trisubstituted dihydrobenzo[a]carbazoles are reported. Relative binding affinities were similar to tamoxifen. In vivo studies in rats bearing NMU-induced mammary tumors indicate that tamoxifen (200 .mu.g s.c. daily) led to 51.6% tumor regression, ovariectomy to 54.4%, and 2,8-dihydroxy-N-(2-morpholino)ethyl-5,6-dihydrobenzo[a]carbazole (I) and 2,8-dihydroxy-N-(2-dimethylamino)ethyl-5,6-dihydrobenzo[a]carbazole (II) (200 .mu.g s.c. daily) to 50.0 and 54.8%, resp. These expts. demonstrated that I and II are as effective as tamoxifen in the model studied.
 IT 163277-97-2P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (design, synthesis and antitumor activity of trisubstituted dihydrobenzo[a]carbazoles)
 RN 163277-97-2 CAPLUS
 CN 5H-Benzo[a]carbazole-2,8-diol, 11-(2-(dimethylamino)ethyl)-6,11-dihydro- (9CI) (CA INDEX NAME)

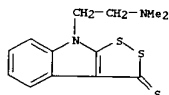


IT 163277-95-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

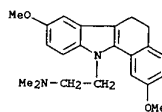
L13 ANSWER 9 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1994:482941 CAPLUS
 DOCUMENT NUMBER: 121:82941
 TITLE: Lithiation routes to oxindoles and 2-indolinethiones:
 2-indolinethiones:
 precursors to 2,2'-dithiobisindoles with tyrosine kinase inhibitory properties
 AUTHOR(S): Rewcastle, Gordon W.; Deany, William A.
 CORPORATE SOURCE: Sch. Med., Univ. Auckland, Auckland, 92019, N. Z.
 SOURCE: Heterocycles (1994), 37(2), 701-8
 CODEN: HTCYAM; ISSN: 0385-5414
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 121:82941
 GI



AB N-Substituted oxindoles, e.g. I, and 2-indolinethiones can be prepd. by lithiation of carboxyl protected N,2-dimethylanilines followed by quenching with CO2 or CS2 resp. 2-indolinethione derivs. are also available via demethylation of 2-methylthioindoles, which are prepd. by lithiation of N-substituted indoles and treatment with di-Me disulfide.
 IT 156267-15-1P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 156267-15-1 CAPLUS
 CN 1,2-Dithiolo[3,4-b]indole-3(8H)-thione, 8-[2-(dimethylamino)ethyl]- (9CI) (CA INDEX NAME)

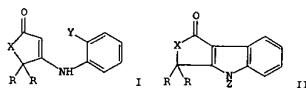


L13 ANSWER 8 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 (Reactant or reagent)
 (design, synthesis and antitumor activity of trisubstituted dihydrobenzo[a]carbazoles)
 RN 163277-95-0 CAPLUS
 CN 11H-Benzo[a]carbazole-11-ethanamine, 5,6-dihydro-2,8-dimethoxy-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

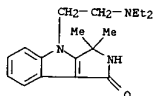


● HCl

L13 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1992:151484 CAPLUS
 DOCUMENT NUMBER: 116:151484
 TITLE: Syntheses and reactions of 3,3-dimethyl-1H,3H-furo[4,3-b]indol-1-one and 3,3-dimethyl-1H,3H-pyrrolo[4,3-b]indol-1-one
 AUTHOR(S): Matsuo, Keizo; Ogura, Masaru
 CORPORATE SOURCE: Fac. Pharm. Sci., Kinki Univ., Osaka, 577, Japan
 SOURCE: Chem. Express (1992), 7(2), 145-8
 CODEN: CHEXEU; ISSN: 0911-9566
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 116:151484
 GI

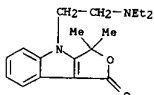


AB Treatment of 4,4-dimethyl-3-(2-iodophenylamino)-2-buten-4-olide I (X = O, R = Me, Y = I) with sodium hydride in the presence of Cu(I) in HMPA gave 3,3-dimethyl-1H,3H-furo[4,3-b]indol-1-one II (X = O, R = Me, Z = H) in good yield. Its pyrrolo deriv. II (X = NH) was also synthesized by the same procedure. Alkylations of the both compds. by MeI and BrCH2CH2NET2 gave 27-53% II (X = O, NH, NMe, R = Me, Z = Me, CH2CH2NET2).
 IT 139927-83-6
 RL: RCT (Reactant) (amidation by, of benzoylchlorides)
 RN 139927-83-6 CAPLUS
 CN Pyrrolo[3,4-b]indol-1(2H)-one, 4-[2-(diethylamino)ethyl]-3,4-dihydro-3,3-dimethyl- (9CI) (CA INDEX NAME)



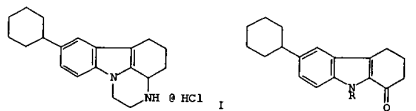
IT 139927-29-0P

L13 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 139927-29-0 CAPLUS
 CN 1H-Furo[3,4-b]indol-1-one, 4-[2-(diethylamino)ethyl]-3,4-dihydro-3,3-dimethyl- (9CI) (CA INDEX NAME)



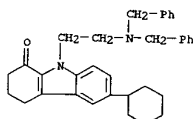
L13 ANSWER 11 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1991:536125 CAPLUS
 DOCUMENT NUMBER: 115:136125
 TITLE: Antidepressant
 2,3,3a,4,5,6-hexahydro-8-cyclohexyl-1H-pyrazino[3,2,1-j]carbazole hydrochloride
 Shvedov, V. I.; Mashkovskii, M. D.; Savitskaya, N. V.; Andreeva, N. I.; Fedorova, I. N.; Gus'kova, T. A.; Tupikina, S. M.; Verstakova, O. L.; Nyrkova, V. G.; et al.
 PATENT ASSIGNEE(S): Grineva, G. V., USSR; Ordzhonikidze, S., All-Union Scientific-Research Chemical-Pharmaceutical Institute
 SOURCE: PCT Int. Appl., 39 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Russian
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9107968	A1	19910613	WO 1989-SU302	19891127
W: FI, JP, US				
RW: AT, BE, CH, DE, ES, FR, GB, IT, LU, NL, SE				
EP 457908	A1	19911127	EP 1990-905365	19891127
R: BE, CH, DE, FR, GB, IT, LI, SE				
JP 05502659	T2	19930513	JP 1990-505418	19891127
CA 2019190	AA	19911218	CA 1990-2019190	19900618
HU 59142	A2	19920428	HU 1990-5727	19900831
HU 206213	B	19920928		
PRIORITY APPLN. INFO.: OTHER SOURCE(S):			WO 1989-SU302	19891127
GI			CASREACT 115:136125	

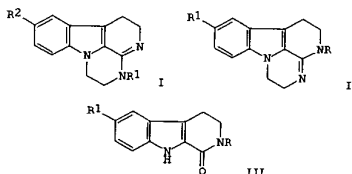


AB The title compd. (I) was prepd. in 2 steps from carbazalone II (R = H).
 Thus, a phase-transfer system contg. II (R = H), 30% aq. NaOH, (PhCH₂)₂NCH₂CH₂Cl.cntdot.HCl, Bu₄NBr, and toluene was heated at 95-100.degree. for 5-6 h to give a 94.5% yield of II (R = (PhCH₂)₂NCH₂CH₂). This product was hydrogenated over Pd/C in MeOH at 60.degree./10 atm, the catalyst was filtered off, and HCl was added to the

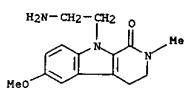
L13 ANSWER 11 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 filtrate to give I in 73.6% yield, based on II (R = H). I showed greater activity than pyrazidole and imipramine in reinforcing the effects of (+,-)-amphetamine and 5-hydroxytryptophan in mice.
 IT 135897-71-1R
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and reductive cyclization of)
 RN 135897-71-1 CAPLUS
 CN 1H-Carbazol-1-one, 9-[2-[bis(phenylmethyl)amino]ethyl]-6-cyclohexyl-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



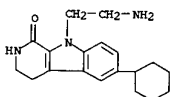
L13 ANSWER 12 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1990:526021 CAPLUS
 DOCUMENT NUMBER: 113:126021
 TITLE: New incasan analogs: synthesis and pharmacological activity
 AUTHOR(S): Zaitsev, S. A.; Glushkov, R. G.; Andreeva, N. I.; Mashkovskii, M. D.
 CORPORATE SOURCE: VNIKhFI im. Ordzhonikidze, Moscow, USSR
 SOURCE: Khim.-Farm. Zh. (1990), 24(2), 112-14
 CODEN: KHFZAN; ISSN: 0023-1134
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 113:126021
 GI



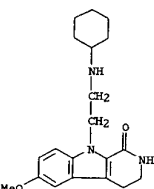
AB Incasane analogs, I (R₁ = CH₂-Ph, Me or cyclohexyl, R₂ = OMe or cyclohexyl) and II (R = H or Me and R₁ = OMe or cyclohexyl) were prepd. by a sequence of reactions starting from the corresponding III (R = H or Me, R₁ = OMe or cyclohexyl). I and II were antagonistic to the activity of reserpine and increased the activity of 5-hydroxytryptamine and L-Dopa.
 Comps. contg. a cyclohexyl group (C-10) attached to the benzene ring showed higher antidepressant and lower toxicity than incasane.
 However, 4-benzyl and 4-cyclohexyl-substituted comps. were less active and more toxic than incasane.
 IT 129280-64-4P 129280-65-5P 129280-69-9P
 129280-71-3P 129300-86-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and cyclization of)
 RN 129280-64-4 CAPLUS
 CN 1H-Pyrdo[3,4-b]indol-1-one, 9-(2-aminoethyl)-2,3,4,9-tetrahydro-6-methoxy-2-methyl- (9CI) (CA INDEX NAME)



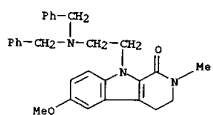
RN 129280-65-5 CAPLUS
CN 1H-Pyrido[3,4-b]indol-1-one, 9-(2-aminoethyl)-6-cyclohexyl-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



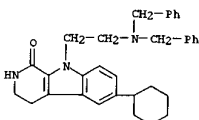
RN 129280-69-9 CAPLUS
CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(cyclohexylamino)ethyl]-2,3,4,9-tetrahydro-6-methoxy- (9CI) (CA INDEX NAME)



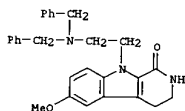
RN 129280-71-3 CAPLUS
CN 1H-Pyrido[3,4-b]indol-1-one, 6-cyclohexyl-9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



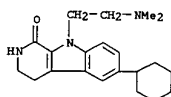
RN 129300-85-2 CAPLUS
CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-bis(phenylmethyl)amino]ethyl]-6-cyclohexyl-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



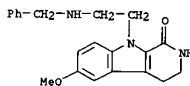
IT 129300-83-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and hydrogenolysis or cyclization of)
RN 129300-83-0 CAPLUS
CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-bis(phenylmethyl)amino]ethyl]-2,3,4,9-tetrahydro-6-methoxy- (9CI) (CA INDEX NAME)



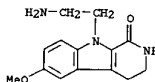
IT 129280-73-5P 129280-74-6P 129280-75-7P
129280-76-8P 129300-87-4P 129300-88-5P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
RN 129280-73-5 CAPLUS
CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-bis(phenylmethyl)amino]ethyl]-2,3,4,9-tetrahydro-6-methoxy-, hydrochloride (9CI) (CA INDEX NAME)



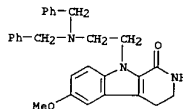
RN 129300-86-3 CAPLUS
CN 1H-Pyrido[3,4-b]indol-1-one, 2,3,4,9-tetrahydro-6-methoxy-9-[2-(phenylmethyl)amino]ethyl- (9CI) (CA INDEX NAME)



IT 129280-63-3P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and cyclization or condensation with cyclohexanone of)
RN 129280-63-3 CAPLUS
CN 1H-Pyrido[3,4-b]indol-1-one, 9-(2-aminoethyl)-2,3,4,9-tetrahydro-6-methoxy- (9CI) (CA INDEX NAME)

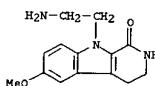


IT 129300-84-1P 129300-85-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and hydrogenolysis of)
RN 129300-84-1 CAPLUS
CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-bis(phenylmethyl)amino]ethyl]-2,3,4,9-tetrahydro-6-methoxy-2-methyl- (9CI) (CA INDEX NAME)



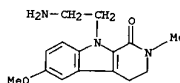
● x HCl

RN 129280-74-6 CAPLUS
CN 1H-Pyrido[3,4-b]indol-1-one, 9-(2-aminoethyl)-2,3,4,9-tetrahydro-6-methoxy-, hydrochloride (9CI) (CA INDEX NAME)



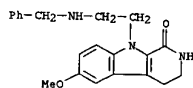
● x HCl

RN 129280-75-7 CAPLUS
CN 1H-Pyrido[3,4-b]indol-1-one, 9-(2-aminoethyl)-2,3,4,9-tetrahydro-6-methoxy-2-methyl-, hydrochloride (9CI) (CA INDEX NAME)



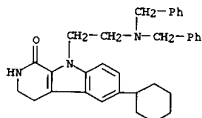
● x HCl

RN 129280-76-8 CAPLUS
CN 1H-Pyrido[3,4-b]indol-1-one, 2,3,4,9-tetrahydro-6-methoxy-9-[2-(phenylmethyl)amino]ethyl-, hydrochloride (9CI) (CA INDEX NAME)



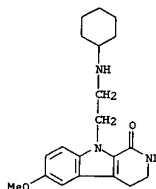
● x HCl

RN 129300-87-4 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(bis(phenylmethyl)amino)ethyl]-6-cyclohexyl-2,3,4,9-tetrahydro-, hydrochloride (9CI) (CA INDEX NAME)



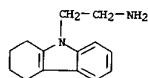
● x HCl

RN 129300-88-5 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(cyclohexylamino)ethyl]-2,3,4,9-tetrahydro-6-methoxy-, hydrochloride (9CI) (CA INDEX NAME)



● x HCl

L13 ANSWER 13 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1988:130888 CAPLUS
 DOCUMENT NUMBER: 108:130888
 TITLE: Excited-state behavior of tryptamine and related indoles. Remarkably efficient intramolecular proton-induced quenching
 AUTHOR(S): Shizuka, Haruo; Serizawa, Manabu; Kobayashi, Teruo; Kameta, Kosei; Sugiyama, Hiroshi; Matsuura, Saito, Isao
 CORPORATE SOURCE: Dep. Chem., Gunma Univ., Gunma, 376, Japan
 SOURCE: J. Am. Chem. Soc. (1988), 110(6), 1726-32
 CODEN: JACSAT; ISSN: 0002-7863
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The excited-state behavior of tryptamine and 1,2,3,4-tetrahydrocarbazoles possessing alkylamino side chains in the absence and presence of 18-crown-6 in MeOH-H₂O (9:1) mixts. has been studied by means of nanosecond single-photon counting, fluorimetry, and photochem. H-D isotope exchange. The fluorescence intensity of these indoles increases significantly with increasing concn. of 18-crown-6. The relatively short lifetime of the tryptamine ammonium ion (I) is not ascribed to external quenching but rather to internal quenching. The rate const. k_q for internal quenching can be estd. from the equation k_q = .tau.₀⁻¹ - .tau._{max}⁻¹, where .tau.₀ and .tau._{max} represent the fluorescence lifetimes for free I and the 1:1 18-crown ether complex, resp. Internal quenching originates from electrophilic proton attack by the N+H3 (or N+D3) group of I at the C-4 position of the excited indole ring. For the tetrahydrocarbazole deriv. contg. (CH₂)₃N+H3 the k_q value comprises the electrophilic proton attack at the C-8 position plus other quenching (probably charge-transfer quenching) between the excited indole moiety and the N+H3 (or N+D3) group. The stabilization const. K_q for the corresponding ammonium ion and 18-crown-6 can be detd. by fluorimetry. The kinetics and thermodyn. parameters for the internal quenching and the complex formation, resp., have been described.
 IT 105258-51-3
 RL: PRP (Properties)
 (fluorescence of, effect of crown ether on)
 RN 105258-51-3 CAPLUS
 CN 9H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

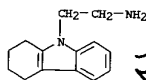


● HCl

IT 112987-91-4P
 RL: PRP (Properties); PREP (Preparation)
 (formation and fluorescence of)
 RN 112987-91-4 CAPLUS
 CN 9H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-, monohydrochloride, compd. with 1,4,7,10,13,16-hexaoxacyclooctadecane (1:1) (9CI) (CA INDEX NAME)

CM 1

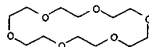
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 CMF C14 H18 N2 . C1 H



● HCl

CM 2

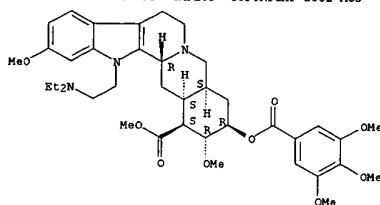
CRN 17455-13-9
 CMF C12 H24 O6



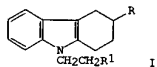
*Two differences
 -> not obs.*

L13 ANSWER 14 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1988:48844 CAPLUS
 DOCUMENT NUMBER: 108:48844
 TITLE: Factors influencing the toxicity of diethylaminostylereserpine to tumor cells:
 studies
 with four transplantable tumors
 AUTHOR(S): Lehnert, Shirley
 CORPORATE SOURCE: Dep. Radiation Oncol., McGill Univ., Montreal, PQ, H3G
 SOURCE: 1AU, Can. Oncology (1987), 44(6), 386-91
 CODEN: ONCOBS; ISSN: 0030-2414
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The toxicity of 1-[2-(diethylamino)ethyl]reserpine (DL-152) was measured on 4 transplantable mouse tumors. DL-152 was toxic to cells of all the tumor models tested (KHT fibrosarcoma, RIF-1 fibrosarcoma, EMT-6 adenocarcinoma, and Lewis lung carcinoma) when the drug was given i.p. to the tumor-bearing mouse and cell survival was measured by excision assay. For the KHT tumor, hypoxic cells were more sensitive to the drug in vivo than were aerated cells, and a similar response to hypoxia was obsd. in vitro, suggesting that sensitization occurred at the cellular level. Neither EMT-6 nor RIF-1 tumors showed increased sensitivity to the drug when cells were exposed under hypoxic conditions in vivo or in vitro. However, when the response of aerated cells of the 3 tumors was compared, the relative sensitivities of tumors exposed in vivo did not show the same ranking as the results of in vitro toxicity assays. This difference in in vitro and in vivo response in the different tumor models did not appear to be related to pharmacokinetic factors, since the max. tissue concn. and the rate of clearance of the drug were similar for all the tumors studied.
 IT 53-18-9, DL-152
 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (neoplasm inhibition by, hypoxia and pharmacokinetics effect on)
 RN 53-18-9 CAPLUS
 CN Yohimban-16-carboxylic acid, 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester, (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

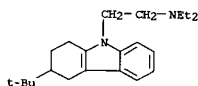
L13 ANSWER 14 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



L13 ANSWER 15 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1987:67041 CAPLUS
 DOCUMENT NUMBER: 106:67041
 TITLE: Tetrahydrocarbazoles. Part II. Tricyclic inhibitors
 of gastric acid secretion
 AUTHOR(S): Canas-Rodriguez, A.; Mateo Bernardo, A.
 CORPORATE SOURCE: Chelsea Coll., Univ. London, London, SW3 6LX, UK
 SOURCE: An. Quim., Ser. C (1985), 81(3), 254-7
 CODEN: AQSBDE; ISSN: 0211-1357
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 106:67041
 GI

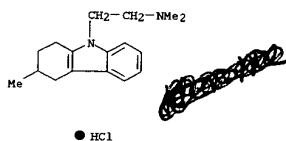


AB Tetrahydrocarbazoles I (R = Me, Et, CHMe2, CHMe3, CH2CHMe3; R1 = NMe2, NEt2, 1-pyrrolidinyl, 1-piperidyl) were prepd. Some of them showed gastric secretion inhibitory properties. Structure activity relationships of I were studied.
 IT 55160-58-2P 106583-27-1P 106583-29-3P
 106583-31-7P 106583-33-9P 106583-35-1P
 106583-37-3P 106583-39-5P 106583-41-9P
 106583-43-1P 106583-45-3P 106583-47-5P
 106583-50-0P 106583-52-2P 106583-53-3P
 106583-54-4P 106583-56-6P 106583-58-8P
 106583-60-2P 106583-63-5P 106583-65-7P
 106608-93-9P
 RL: SYN (Synthetic preparation); PREP (Preparation) (prepn. and gastric secretion inhibition of)
 RN 55160-58-2 CAPLUS
 CN 9H-Carbazole-9-ethanamine, 3-(1,1-dimethylethyl)-N,N-diethyl-1,2,3,4-tetrahydro- (9CI) (CA INDEX NAME)



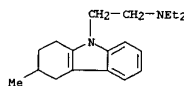
RN 106583-27-1 CAPLUS
 CN 9H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-N,N,3-trimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 15 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



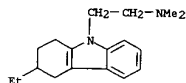
● HCl

RN 106583-29-3 CAPLUS
 CN 9H-Carbazole-9-ethanamine, N,N-diethyl-1,2,3,4-tetrahydro-3-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

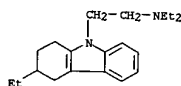
RN 106583-31-7 CAPLUS
 CN 9H-Carbazole-9-ethanamine, 3-ethyl-1,2,3,4-tetrahydro-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

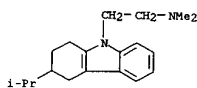
RN 106583-33-9 CAPLUS
 CN 9H-Carbazole-9-ethanamine, N,N,3-triethyl-1,2,3,4-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

*Isop
differentials
is Allowable.*



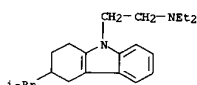
● HCl

RN 106583-35-1 CAPLUS
 CN 9H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-N,N-dimethyl-3-(1-methylethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



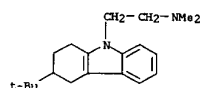
● HCl

RN 106583-37-3 CAPLUS
 CN 9H-Carbazole-9-ethanamine, N,N-diethyl-1,2,3,4-tetrahydro-3-(1-methylethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



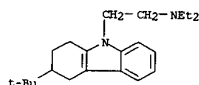
● HCl

RN 106583-39-5 CAPLUS
 CN 9H-Carbazole-9-ethanamine, 3-(1,1-dimethylethyl)-1,2,3,4-tetrahydro-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



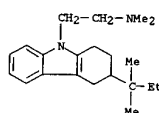
● HCl

RN 106583-41-9 CAPLUS
 CN 9H-Carbazole-9-ethanamine, 3-(1,1-dimethylethyl)-N,N-diethyl-1,2,3,4-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



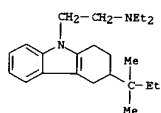
● HCl

RN 106583-43-1 CAPLUS
 CN 9H-Carbazole-9-ethanamine, 3-(1,1-dimethylpropyl)-1,2,3,4-tetrahydro-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



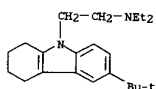
● HCl

RN 106583-45-3 CAPLUS
 CN 9H-Carbazole-9-ethanamine, 3-(1,1-dimethylpropyl)-N,N-diethyl-1,2,3,4-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



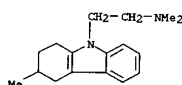
● HCl

RN 106583-47-5 CAPLUS
 CN 9H-Carbazole-9-ethanamine, 6-(1,1-dimethylethyl)-N,N-diethyl-1,2,3,4-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

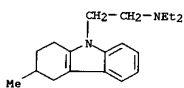


● HCl

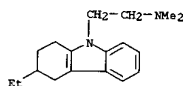
RN 106583-50-0 CAPLUS
 CN 9H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-N,N,3-trimethyl- (9CI) (CA INDEX NAME)



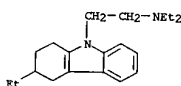
RN 106583-52-2 CAPLUS
 CN 9H-Carbazole-9-ethanamine, N,N-diethyl-1,2,3,4-tetrahydro-3-methyl- (9CI) (CA INDEX NAME)



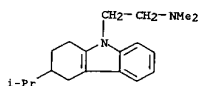
RN 106583-53-3 CAPLUS
 CN 9H-Carbazole-9-ethanamine, 3-ethyl-1,2,3,4-tetrahydro-N,N-dimethyl- (9CI) (CA INDEX NAME)



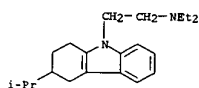
RN 106583-54-4 CAPLUS
 CN 9H-Carbazole-9-ethanamine, N,N,3-triethyl-1,2,3,4-tetrahydro- (9CI) (CA INDEX NAME)



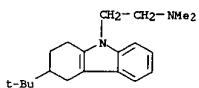
RN 106583-56-6 CAPLUS
 CN 9H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-N,N-dimethyl-3-(1-methylethyl)- (9CI) (CA INDEX NAME)



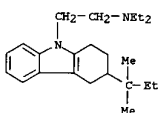
RN 106583-58-8 CAPLUS
 CN 9H-Carbazole-9-ethanamine, N,N-diethyl-1,2,3,4-tetrahydro-3-(1-methylethyl)- (9CI) (CA INDEX NAME)



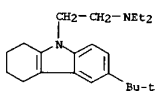
RN 106583-60-2 CAPLUS
CN 9H-Carbazole-9-ethanamine,
3-(1,1-dimethylethyl)-1,2,3,4-tetrahydro-N,N-
dimethyl- (9CI) (CA INDEX NAME)



RN 106583-63-5 CAPLUS
CN 9H-Carbazole-9-ethanamine,
3-(1,1-dimethylpropyl)-N,N-diethyl-1,2,3,4-
tetrahydro- (9CI) (CA INDEX NAME)

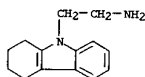


RN 106583-65-7 CAPLUS
CN 9H-Carbazole-9-ethanamine, 6-(1,1-dimethylethyl)-N,N-diethyl-1,2,3,4-
tetrahydro- (9CI) (CA INDEX NAME)



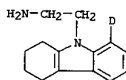
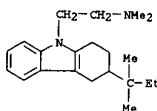
RN 106608-93-9 CAPLUS
CN 9H-Carbazole-9-ethanamine,
3-(1,1-dimethylpropyl)-1,2,3,4-tetrahydro-N,N-
dimethyl- (9CI) (CA INDEX NAME)

L13 ANSWER 16 OF 99 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1986:608657 CAPLUS
DOCUMENT NUMBER: 105:208657
TITLE: Photoinduced reactions. 165. Regio-controlled
hydrogen-deuterium exchange of biologically
important indoles under UV irradiation
AUTHOR(S): Saito, Isao; Muramatsu, Shigeru; Sugiyama,
Hirosaki;
CORPORATE SOURCE: Yamamoto, Akihiro; Matsura, Teruo
SOURCE: Fac. Eng., Kyoto Univ., Kyoto, 606, Japan
Tetrahedron Lett. (1985), 26(48), 5891-4
CODEN: TETRAE; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 105:208657
AB Photochem. hydrogen-deuterium exchange reaction of biol. important
indoles is reported. The regioselectivity of the photodeuteration was
controlled by the ammonium group of the side chain. Thus, photochem.
deuteration of tryptamine-HCl with MeOD-D2O resulted in a highly regioselective
incorporation of D into the 4-position.
IT 105258-51-3
RL: RCT (Reactant)
(photochem. hydrogen-deuterium exchange reaction of,
regioselective)
RN 105258-51-3 CAPLUS
CN 9H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-, monohydrochloride
(9CI) (CA INDEX NAME)



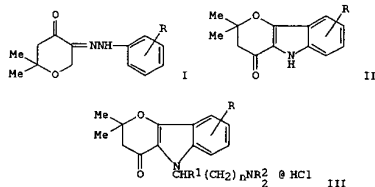
● HCl

IT 105258-54-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 105258-54-6 CAPLUS
CN 9H-Carbazole-9-ethanamine, 5,6,7,8-tetrahydro-, monohydrochloride
(9CI) (CA INDEX NAME)



● HCl

L13 ANSWER 17 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1986:514938 CAPLUS
 DOCUMENT NUMBER: 105:114938
 TITLE: Synthesis of N-[(dialkylamino)alkyl] derivatives of
 9)-trimethylpyrano[3,2-b]indoles
 AUTHOR(S): Pilosyan, S. G.; Dabaeva, V. V.; Mambreyan, Sh. P.;
 CORPORATE SOURCE: Noravyan, A. S.
 SOURCE: Inst. Tonkoi Org. Khim., Yerevan, USSR
 CODEN: AYKZAN; ISSN: 0515-9628
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 105:114938
 GI

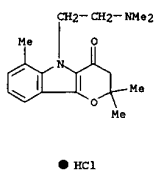


AB Phenylhydrazones I (R = o-, m-, p-Me), prepd. in 70-85% yields from 2,2-dimethyltetrahydro-4H-pyran-4-one by hydroxymethylation with $\text{CH}_3\text{ONa}/\text{HCO}_2\text{Et}$ followed by treatment with $\text{R}_2\text{CHN}_2\text{HCl}$, were cyclized by alc. HCl to give 33-43% pyranindoles II which were N-alkylated by dialkylaminoalkyl chlorides to give III (R1 = H, Me, R2 = Me, Et, n = 1, 2)

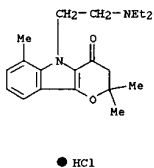
IT 104194-41-4P 104194-42-5P 104194-43-6P
 104194-45-8P 104194-46-9P 104194-47-0P
 104194-49-2P 104194-50-5P 104194-51-6P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prep. of)

RN 104194-41-4 CAPLUS
 CN Pyrano[3,2-b]indol-4(5H)-one, 5-[2-(dimethylamino)ethyl]-2,3-dihydro-2,2,6-trimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 17 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

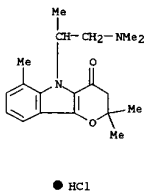


RN 104194-42-5 CAPLUS
 CN Pyrano[3,2-b]indol-4(5H)-one, 5-[2-(diethylamino)ethyl]-2,3-dihydro-2,2,6-trimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

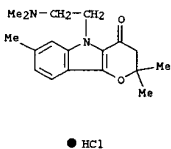


RN 104194-43-6 CAPLUS
 CN Pyrano[3,2-b]indol-4(5H)-one, 5-[2-(dimethylamino)-1-methylethyl]-2,3-dihydro-2,2,6-trimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

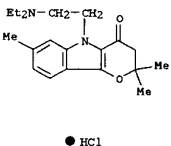
L13 ANSWER 17 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 104194-45-8 CAPLUS
 CN Pyrano[3,2-b]indol-4(5H)-one, 5-[2-(dimethylamino)ethyl]-2,3-dihydro-2,2,7-trimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

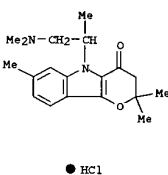


RN 104194-46-9 CAPLUS
 CN Pyrano[3,2-b]indol-4(5H)-one, 5-[2-(diethylamino)ethyl]-2,3-dihydro-2,2,7-trimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

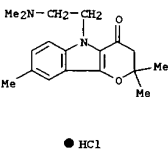


RN 104194-47-0 CAPLUS

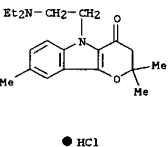
L13 ANSWER 17 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 104194-49-2 CAPLUS
 CN Pyrano[3,2-b]indol-4(5H)-one, 5-[2-(dimethylamino)ethyl]-2,3-dihydro-2,2,8-trimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

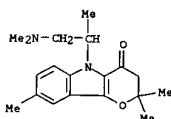


RN 104194-50-5 CAPLUS
 CN Pyrano[3,2-b]indol-4(5H)-one, 5-[2-(diethylamino)ethyl]-2,3-dihydro-2,2,8-trimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



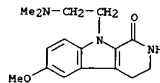
L13 ANSWER 17 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 104194-51-6 CAPLUS
 CN Pyrido[3,2-b]indol-4(5H)-one,
 5-[2-(dimethylamino)-1-methylethyl]-2,3-
 dihydro-2,2,8-trimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



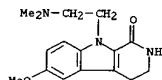
● HC1

L13 ANSWER 18 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1985:620713 CAPLUS
 DOCUMENT NUMBER: 103:220713
 TITLE: Optimal particle size at low ignition limits of aerosols.
 AUTHOR(S): Agudov, V. I.; Yashin, V. Ya.
 CORPORATE SOURCE: Vses. Nauchno-Issled. Khim.-Farm. Inst., Kupavna, USSR
 SOURCE: Khim.-Farm. Zh. (1985), 19(8), 1001-3
 CODEN: KHFZAN; ISSN: 0023-1134
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 AB Dimensional anal. was used to det. the crit. diam. (d) of solid airborne particles for a given lower concn. ignition limit (LCIL) as a function of air thermal cond., std. self-ignition temp., and effective light emission temp. The optimum d for 38 compds. at the LCIL was 50-200 .mu.. The dependence of d on m.p. can be calcd. by taking into account the adhesion of particles to the app. walls.
 IT 897-44-9 966-86-9
 RL: FRP (Properties)
 (crit. particle size of, in aerosols, lower concn. ignition limit in relation to)
 RN 897-44-9 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one,
 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-
 6-methoxy- (7CI, 8CI, 9CI) (CA INDEX NAME)



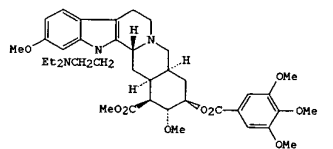
RN 966-86-9 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one,
 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-
 6-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 18 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



● HC1

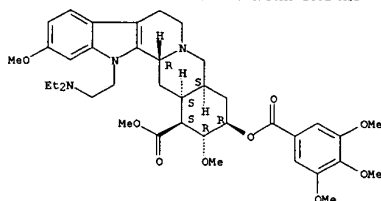
L13 ANSWER 19 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1985:125175 CAPLUS
 DOCUMENT NUMBER: 102:125175
 TITLE: Interaction of diethylaminoreserpine with cells of a transplantable tumor in vivo
 AUTHOR(S): Lehnert, S.
 CORPORATE SOURCE: Montreal Gen. Hosp., Montreal, PQ, H3G 1A4, Can.
 SOURCE: Br. J. Cancer (1984), 50(6), 847-51
 CODEN: BJCAAI; ISSN: 0007-0920
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB In mice with transplanted KHT fibrosarcoma, DL-152 (diethylaminoreserpine) (I) [53-18-9] (320 mg/kg, i.p.) was cytotoxic toward the tumor cells; a hypoxic period (15 min) after the sacrifice of the animal enhanced I cytotoxicity. I levels in the tumor cells persisted for up to 24 h, which correlated with the persistence of I induced cytotoxicity for 24 h. Interaction of I treatment with radiation treatment indicated that I decreased the proportion of hypoxic cells in the tumor. Thus, the most effective protocol for combined treatment would schedule radiotherapy after I treatment when the hypoxic fraction is minimal.
 IT 53-18-9
 RL: RAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (neoplasm inhibition by, in hypoxia, radiotherapy in relation to)
 RN 53-18-9 CAPLUS
 CN Yohimban-16-carboxylic acid,
 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-
 [(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester,
 (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (9CI) (CA INDEX NAME)

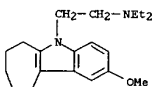
Absolute stereochemistry.

L13 ANSWER 19 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



L13 ANSWER 20 OF 99 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1985:189 CAPLUS
DOCUMENT NUMBER: 102:189
TITLE: Antiamoebic action of drugs and synthetic compounds against trophozoites of Entamoeba histolytica under axenic and polyxenic culture conditions and in the infected rat cecum
AUTHOR(S): Prasad, B. N. Krishna; Bansal, Indu; Das, Pradeep; Srivastava, Reeta
CORPORATE SOURCE: Div. Microbiol., Cent. Drug Res. Inst., Lucknow, 226
SOURCE: 001, India
CURR. SCI. (1984), 53(15), 778-81
CODEN: CUSCAM; ISSN: 0011-3891
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The comparative amoebicidal effects of several known antimicrobials (emetine [483-18-1], dehydroemetine [4914-30-1], metronidazole [443-48-1], Vioform [130-26-7], Entobex [84-12-8], furazolidone [57-45-8], and sulfaguanidine [57-67-0]) as well as 30 other compds. (aryloxypropanolpiperazines, aryloxypropanolamines, alkyl- or arylpiperazinopyridines, arylketones, and other heterocycles) against E. histolytica in axenic or polyxenic culture were examd. Differences in the antimicrobial potency obsd. in vitro were not apparent in therapeutic evaluation tests; rats infected with E. histolytica trophozoites, and only animals given metronidazole were totally cured. Thus, the in vitro test procedure fails to be an accurate index of therapeutic antiamoebic efficacy.
IT 41734-65-0
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
RN 41734-65-0 CAPLUS
CN Cyclohept[b]indole-5(6H)-ethanamine, N,N-diethyl-7,8,9,10-tetrahydro-2-methoxy-, ethanedioate (1:1) (9CI) (CA INDEX NAME)
CH 1
CRN 48198-06-7
CMF C20 H30 N2 O



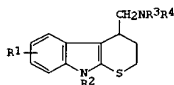
L13 ANSWER 20 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

CH 2
CRN 144-62-7
CMF C2 H2 O4

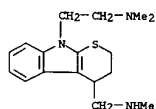


L13 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1984:400226 CAPLUS
DOCUMENT NUMBER: 101:226
TITLE: Studies on fused indoles. II. Structural modifications and analgesic activity of 4-aminomethyltetrahydrothiopyrano[2,3-b]indoles
AUTHOR(S): Takada, Susumu; Ishizuka, Natsuki; Sasatani, Makisumi; Yasuo, Jyoyama, Hirokuni; Hatakeyama, Hisao
CORPORATE SOURCE: Asanuma, Fujio; Hirose, Katsumi; Shionogi Res. Lab., Shionogi and Co., Ltd., Osaka, 553, Japan
SOURCE: Chem. Pharm. Bull. (1984), 32(3), 877-86
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

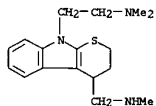


AB A series of 4-aminomethyl-2,3,4,9-tetrahydrothiopyrano[2,3-b]indole derivs. (I; R1 = H, halo, alkyl; R2 = H, Pb, acyl, alkyl; R3 = H, Pb, alkyl; R4 = H, Me, Bu; R3R4 = -(CH2)5-, -(CH2)2N(CH2)2-) was synthesized and evaluated for analgesic activity. Preliminary structure-activity relationship anal. showed that substitution on the benzene portion of the indole ring reduced the analgesic activity, whereas a short-chain Nb-alkyl substituent enhanced the potency, as exemplified by (I; R1 = R2 = R4 = H; R3 = Me) (II) [73425-57-7]. II was equipotent to morphine in the AcOH writhing assay with mice.
IT 73482-09-4P 90471-17-3P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
RN 73482-09-4 CAPLUS
CN Thiopyrano[2,3-b]indole-9(2H)-ethanamine, 3,4-dihydro-N,N-dimethyl-4-[(methylamino)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)

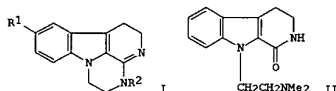


● 2 HCl

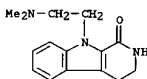
RN 90471-17-3 CAPLUS
 CN Thiopyrano[2,3-b]indole-9(2H)-ethanamine, 3,4-dihydro-N,N-dimethyl-4-[(methylamino)methyl]- (9CI) (CA INDEX NAME)



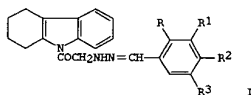
L13 ANSWER 22 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1984:167728 CAPLUS
 DOCUMENT NUMBER: 100:167728
 TITLE: Effect of inkasan and its derivatives on cyclic AMP
 AUTHOR(S): phosphodiesterase activity
 Vatoikina, O. E.; Libinson, R. E.
 CORPORATE SOURCE: Nauchno-Issled. Inst. Biol. Ispyt. Khim. Soedin., USSR
 SOURCE: Khim.-Farm. Zh. (1984), 18(2), 152-3
 CODEN: KHFZAN; ISSN: 0023-1134
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI



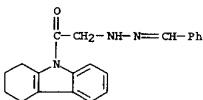
AB Inkasan (I; R1 = OMe, R2 = Me) [53734-79-5] and 1 of its 3 derivs. tested, II [54188-30-6], caused 50% inhibition of rat brain cAMP phosphodiesterase [9036-21-9] at 5.0 .times. 10-4 M. A similar effect was obsd. with a 5.6 .times. 10-4 M concn. of the I; R1 = H, R2 = Me [54188-43-1] and with a 12.5 .times. 10-4 M concn. of the CAH606 salt (I; R1 = H, R2 = Et) [89703-39-9]. CAMP may thus be involved in the mechanism of the antidepressant action of inkasan and its analogs. Structure-activity relations are briefly discussed.
 IT 54188-30-6
 RL: BIOL (Biological study)
 (cAMP phosphodiesterase inhibition by)
 RN 54188-30-6 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



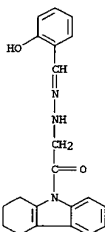
L13 ANSWER 23 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1984:6249 CAPLUS
 DOCUMENT NUMBER: 100:6249
 TITLE: 1,2,3,4-Tetrahydrocarbazoles as possible monoamine oxidase inhibitors
 AUTHOR(S): Soni, Namita; Saxena, A. K.; Barthwal, J. P.; Bhargava, K. P.
 CORPORATE SOURCE: Dep. Pharmacol. Ther., King George's Med. Coll., Lucknow, 226 003, India
 SOURCE: Indian J. Pharm. Sci. (1983), 45(2), 74-6
 CODEN: IJSDW; ISSN: 0250-474X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 100:6249
 GI



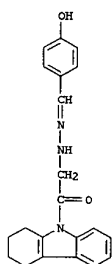
AB Reaction of the appropriate benzaldehyde with 9-(hydroxinoacetyl)-1,2,3,4-tetrahydrocarbazole gave I [R, R1, R2, R3 = H, H, H, H; OH, H, H, H; OH, H; OH, H, OH, H; Cl, H, H, H, Cl, H; OH, Cl, H, Cl; H, H, OMe, H; H, OMe, OMe, OMe; H, OMe, OH, H (II); NO2, H, H, H, H, NO2, H, H, OMe, H, OMe], which inhibited MAO activity. II gave 86.0% inhibition; as compared with 70.0% for pargyline.
 IT 88014-29-3P 88014-30-6P 88014-31-7P
 88014-32-8P 88014-33-9P 88014-34-0P
 88014-35-1P 88014-36-2P 88014-37-3P
 88014-38-4P 88014-39-5P 88014-40-8P
 88014-41-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and monoamine oxidase inhibitory activity of)
 RN 88014-29-3 CAPLUS
 CN 1H-Carbazole, 2,3,4,9-tetrahydro-9-[[[(phenylmethylene)hydrazino]acetyl]- (9CI) (CA INDEX NAME)



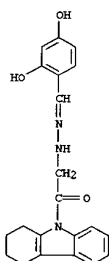
RN 88014-30-6 CAPLUS
 CN 1H-Carbazole, 2,3,4,9-tetrahydro-9-[[[(2-hydroxyphenyl)methylene]hydrazino]acetyl]- (9CI) (CA INDEX NAME)



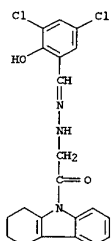
RN 88014-31-7 CAPLUS
 CN 1H-Carbazole, 2,3,4,9-tetrahydro-9-[[[(4-hydroxyphenyl)methylene]hydrazino]acetyl]- (9CI) (CA INDEX NAME)



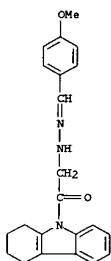
RN 88014-32-8 CAPLUS
CN 1H-Carbazole, 9-[[[(2,4-dihydroxyphenyl)methylene]hydrazino]acetyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



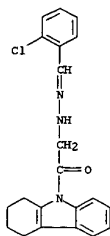
RN 88014-33-9 CAPLUS
CN 1H-Carbazole, 9-[[[(2-chlorophenyl)methylene]hydrazino]acetyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



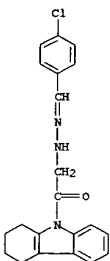
RN 88014-36-2 CAPLUS
CN 1H-Carbazole, 2,3,4,9-tetrahydro-9-[[[(4-methoxyphenyl)methylene]hydrazino]acetyl]- (9CI) (CA INDEX NAME)



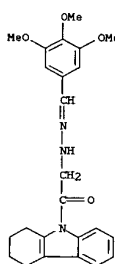
RN 88014-37-3 CAPLUS
CN 1H-Carbazole, 2,3,4,9-tetrahydro-9-[[[(3,4,5-trimethoxyphenyl)methylene]hydrazino]acetyl]- (9CI) (CA INDEX NAME)



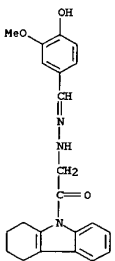
RN 88014-34-0 CAPLUS
CN 1H-Carbazole, 9-[[[(4-chlorophenyl)methylene]hydrazino]acetyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



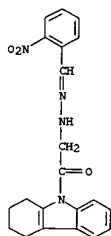
RN 88014-35-1 CAPLUS
CN 1H-Carbazole, 9-[[[(3,5-dichloro-2-hydroxyphenyl)methylene]hydrazino]acetyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



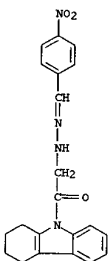
RN 88014-38-4 CAPLUS
CN 1H-Carbazole, 2,3,4,9-tetrahydro-9-[[[(4-hydroxy-3-methoxyphenyl)methylene]hydrazino]acetyl]- (9CI) (CA INDEX NAME)



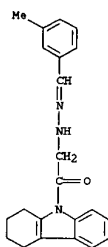
RN 88014-39-5 CAPLUS
CN 1H-Carbazole, 2,3,4,9-tetrahydro-9-[[[(2-nitrophenyl)methylene]hydrazino]acetyl]- (9CI) (CA INDEX NAME)



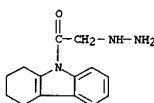
RN 88014-40-8 CAPLUS
CN 1H-Carbazole,
2,3,4,9-tetrahydro-9-[[[(4-nitrophenyl)methylene]hydrazino]acetyl]- (9CI) (CA INDEX NAME)



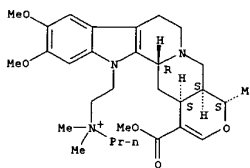
RN 88014-41-9 CAPLUS
CN 1H-Carbazole,
2,3,4,9-tetrahydro-9-[[[(3-methylphenyl)methylene]hydrazino]acetyl]- (9CI) (CA INDEX NAME)



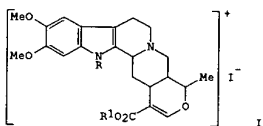
IT 88014-42-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction with benzaldehydes)
RN 88014-42-0 CAPLUS
CN 1H-Carbazole, 9-(hydrazinoacetyl)-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



L13 ANSWER 24 OF 99 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1983:454047 CAPLUS
DOCUMENT NUMBER: 99:54047
TITLE: Reserpiline quaternary ammonium salt derivatives
PATENT ASSIGNEE(S): Nissin Flour Milling Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKKXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
PATENT NO. KIND DATE APPLICATION NO. DATE
JP 58015981 A2 19830129 JP 1981-113417 19810720
JP 02017554 B4 19900420
OTHER SOURCE(S): CASREACT 99:54047
GI

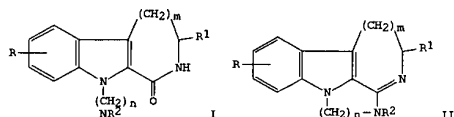


● I⁻

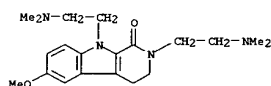


AB Title derivs. I (R, R1 = H, Me2PrN+CH2CH2; Me2PrN+CH2CH2, Me) were prepd.
by treating the corresponding bases with PrI. Effects of I against adrenaline-caused arrhythmia were shown in guinea pigs in comparison with procainamide; the LD50 were 10-11.1 mg/kg i.v. in mice. Thus, reaction of 5 g 2-(dimethylamino)ethyl reserpilate with 10 mL PrI in Me2CO 17 h at room temp. gave 51.4% I (R = H, R1 = Me2PrN+CH2CH2).
IT 86507-77-9P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and antiarrhythmic activity of)
RN 86507-77-9 CAPLUS
CN Oxayohimban-1-ethanaminium, 16,17-didehydro-10,11-dimethoxy-16-(methoxycarbonyl)-N,N,19-trimethyl-N-propyl-, iodide, (3.beta.,19.alpha.,20.alpha.)- (9CI) (CA INDEX NAME)
Absolute stereochemistry.

L13 ANSWER 25 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1983:53831 CAPLUS
 DOCUMENT NUMBER: 98:53831
 TITLE: Synthesis and pharmacological activity of pyrazino-beta-Carbolines
 AUTHOR(S): Glushkov, R. G.; Filenko, N. I.; Mashkovskii, M. D.; Andreeva, N. I.; Sozinov, V. N.
 CORPORATE SOURCE: Vses. Nauchno-Issled. Khim.-Farm. Inst., Moscow, USSR
 SOURCE: Khim.-Farm. Zh. (1982), 16(9), 1054-8
 CODEN: KHFZAN; ISSN: 0023-1134
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI

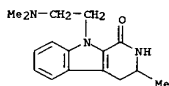


AB The synthesis of I (m, n, R, R1, R2 = 1, 2, 6-MeO, H, Me; 1, 2, 7-MeO, H, Me; 1, 2, H, Me, Me; 1, 3, H, Me, Me, 2, 2, H, H, Me; 2, 3, H, H, Me), 14 II, and 5 related compds. were sketched, but no exptl. details were given.
 The compds. had psychotropic activity.
 IT 84298-39-5p 84298-41-9p
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and psychotropic activity of)
 RN 84298-39-5 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 2,9-bis[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-6-methoxy- (9CI) (CA INDEX NAME)

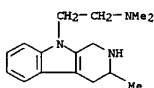


RN 84298-41-9 CAPLUS
 CN 9H-Pyrido[3,4-b]indole-9-ethanamine, 1,2,3,4-tetrahydro-N,N,3-trimethyl- (9CI) (CA INDEX NAME)

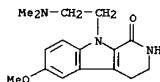
L13 ANSWER 25 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 3-methyl- (9CI) (CA INDEX NAME)



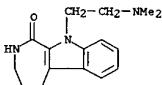
L13 ANSWER 25 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



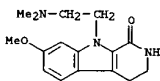
IT 897-44-9P 54188-27-1P 54188-34-0P
 84298-29-3P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn., psychotropic activity, and reactions of)
 RN 897-44-9 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-6-methoxy- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 54188-27-1 CAPLUS
 CN Azepino[3,4-b]indol-1(2H)-one, 10-[2-(dimethylamino)ethyl]-3,4,5,10-tetrahydro- (9CI) (CA INDEX NAME)

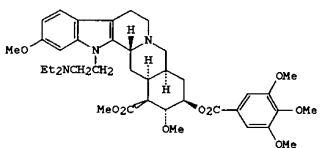


RN 54188-34-0 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-7-methoxy- (9CI) (CA INDEX NAME)



RN 84298-29-3 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-

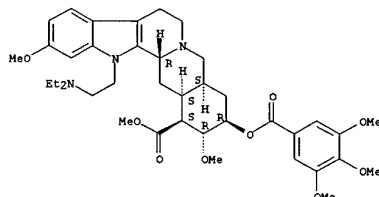
L13 ANSWER 26 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1982:484925 CAPLUS
 DOCUMENT NUMBER: 97:84925
 TITLE: Toxicity of diethylaminoreserpine to a transplantable tumor: the significance of the presence of hypoxic cells
 AUTHOR(S): Lehnert, Shirley
 CORPORATE SOURCE: Dep. Radiat. Oncol., McGill Univ., Montreal, PQ, H36
 SOURCE: 1A4, Can. Cancer Res. (1982), 42(8), 3028-32
 CODEN: CNREA8; ISSN: 0008-5472
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB The survival of clonogenic cells from 2 transplantable mouse tumors was measured following i.p. injection of DL-152 (diethylaminoreserpine) (I) [53-18-9] to the tumor-bearing mouse. Redn. of surviving fraction was seen for both tumors following injection of the drug, minimal nos. of surviving cells being seen from 24 to 48 h after injection. Greater cell kill was obsd. for the KHT fibrosarcoma than for the EMT6 mammary carcinoma. Redn. in surviving fraction of the KHT tumor was already obsd. at 1 h after injection of the drug, and survival at that time was reduced if tumor cells were acutely hypoxic prior to excision of the tumor. Results also indicated that chronically hypoxic radioreistant cells were more sensitive to the drug than were aerated cells. Significant redn. in surviving fraction was seen for doses of DL-152 as low as 5 mg/kg. Using KHT tumors growing as lung nodules, the toxicity of DL-152 was not

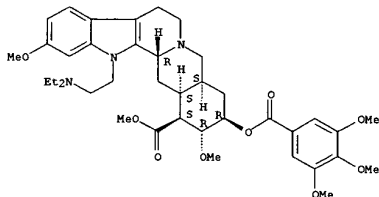
L13 ANSWER 26 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 apparent until 11-14 days after initiation of the tumor and that
 subsequent sensitivity of cells to DL-152 increased with increasing
 age of
 the lung tumor. Hypoxic cells were detectable in 10-day-old lung
 tumors,
 a time at which the tumors were still resistant to the toxic effects
 of
 DL-152. In vitro expts. using KHT cells in suspension showed that a
 high
 concn. of DL-152 was toxic to both hypoxic and aerated cells but that
 hypoxic cells were more sensitive to lower concns. than were aerated
 cells.
 IT 53-18-9
 RL: PRP (Properties)
 (cytotoxicity of, hypoxic cells in relation to)
 RN 53-18-9 CAPLUS
 CN Yohimban-16-carboxylic acid,
 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-
 [(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester,
 (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



L13 ANSWER 27 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 [(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester,
 (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.

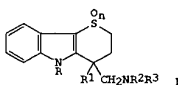


L13 ANSWER 27 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1982:213361 CAPLUS
 DOCUMENT NUMBER: 96:213361
 TITLE: Toxicity of diethylaminoreserpine to tumor cells:
 effects of drug alone and in combination with
 radiation
 AUTHOR(S): Lehner, Shirley
 CORPORATE SOURCE: Dep. Radiat. Oncol., McGill Univ., Montreal, PQ,
 Can.
 SOURCE: Int. J. Radiat. Oncol., Biol. Phys. (1982),
 9(3-4),
 505-9
 CODEN: IOBPD3; ISSN: 0360-3016
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB DL-152 (diethylaminoreserpine) is toxic to cells of 2 transplantable
 mouse
 tumors. Minimal nos. of surviving tumor cells are seen at 24 and 48 h
 following administration of the drug to the tumor-bearing mouse, the
 small
 fraction of cells surviving at this time (for doses as low as 5 mg/kg)
 indicates that both hypoxic and aerated cells are killed. For short
 (1 h)
 exposures in vivo, however, both acutely and chronically hypoxic
 cells are
 more sensitive to DL-152 than are their aerated counterparts. For KHT
 cells growing as lung nodules, DL-152 toxicity is not demonstrable
 until
 11-14 days after initiation of the lung tumor, coinciding with the
 time at
 which a hypoxic fraction develops in this model. In vitro expts.
 using
 KHT cells in suspension showed certain concns. of DL-152 to be
 selectively
 toxic to hypoxic cells. At higher concns. both hypoxic and aerated
 cells
 were killed by the drug. The combined effect of DL-152 and irradiatn.
 has
 been investigated using, as an index of response, the time required
 for a
 transplantable tumor to regrow to a given vol. after treatment.
 DL-152
 was equally effective in prolonging the period of radiation-induced
 growth
 delay when it was given either shortly before or shortly after irradiatn.
 Growth delay attributable to drug plus irradiatn. was greater than would
 be
 predicted if the effects of the 2 modalities were additive.
 Evidently,
 DL-152 has a concn.-dependent specific toxicity for hypoxic cells and
 the
 drug may require a hypoxic milieu to manifest toxicity.
 IT 53-18-9
 RL: PRP (Properties)
 (toxicity of, to neoplasms, radiation effect on)
 RN 53-18-9 CAPLUS
 CN Yohimban-16-carboxylic acid,
 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-

L13 ANSWER 28 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1982:199658 CAPLUS
 DOCUMENT NUMBER: 96:199658
 TITLE: Tetrahydrothiopyrano[3,2-b]indole derivatives and
 pharmaceutical composition containing these
 compounds
 INVENTOR(S): Makisumi, Yasuo; Sasatani, Takashi
 PATENT ASSIGNEE(S): Shionogi and Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 35 pp.
 CODEN: EPXKDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

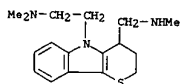
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 35259	A1	19810909	EP 1981-101451	19810227
EP 35259	B1	19840328		
JP 56120666	A2	19810922	JP 1980-23751	19800227
JP 63065675	B4	19881216		
CA 1158241	A1	19831206	CA 1981-368802	19810119
ES 498968	A1	19811201	ES 1981-498968	19810130
DK 8100854	A	19810828	DK 1981-854	19810225
DK 150305	B	19870202		
DK 150305	C	19871123		
AU 8167934	A1	19810903	AU 1981-67934	19810227
AU 538185	B2	19840802		
ES 502954	A1	19821216	ES 1981-502954	19810611
US 4910318	A	19900320	US 1984-633686	19840725
PRIORITY APPL. INFO.:			JP 1980-23751	19800227
			US 1981-227203	19810122
			US 1982-409107	19820818

GI



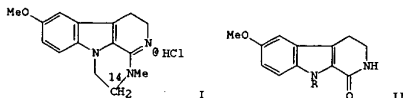
AB Thiopyranoindoles I (R = H, alkyl, alkenyl, alkynyl, aralkyl, aryl,
 aminoalkyl; R1, R2 = H, alkyl; R3 = H, alkyl, aminoalkyl; NR2R3 =
 heterocyclyl; n = 0-2) were prepd. Thus, treating 1-ethylindole with
 thiourea and then hydrolysis gave 1-ethyl-3-indolethiol which was
 treated
 with ClC.tplbond.CCH2OH and cyclized with pyridine to give
 4-formyl-5-methyl-2,3,4,5-tetrahydrothiopyrano[3,2-b]indole.
 Reductive
 amination of the last compd. gave 1.HCl (R = R2 = Me, R1 = R3 = H; n
 = 0)

L13 ANSWER 28 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 which had an antiinflammatory ED30 of 9.4 mg/kg orally in rats in the
 carrageenin edema test and an analgesic ED50 of 6.4 mg/kg orally in
 mice
 in the HOAc writhing test.
 IT 80189-31-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 80189-31-7 CAPLUS
 CN Thiopyrano[3,2-b]indole-5(2H)-ethanamine, 3,4-dihydro-N,N-dimethyl-4-
 [(methylamino)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)

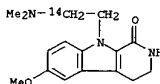


● 2 HCl

L13 ANSWER 29 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1982:20067 CAPLUS
 DOCUMENT NUMBER: 96:20067
 TITLE: Synthesis of inkasan-14C
 AUTHOR(S): Askinszi, B. Z.; Vekshina, L. I.; Kogan, N. A.;
 Kozarinskaya, N. Ya.
 CORPORATE SOURCE: USSR
 SOURCE: Khim.-Farm. Zh. (1981), 15(10), 70-3
 CODEN: KHFZAN; ISSN: 0023-1134
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI



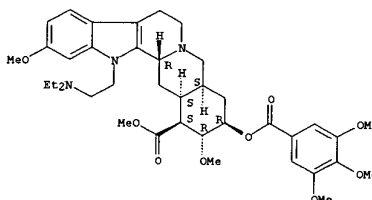
AB The title compd. I was prepd. in 8 steps from NaCN-14C by treatment
 with
 CH2O and BzCl to give N14CH2OBr, followed by redn., methylation,
 chlorination, treatment with I1 (R = Na) to give II1 (R =
 CH214CH2NMe2),
 cyclization by POC13 to give a dichlorophosphonate salt, and
 ethanololysis.
 IT 80309-62-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and cyclization by phosphoryl chloride)
 RN 80309-62-2 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl-2-14C]-2,3,4,9-
 tetrahydro-6-methoxy- (9CI) (CA INDEX NAME)



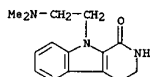
L13 ANSWER 30 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1981:561922 CAPLUS
 DOCUMENT NUMBER: 95:161922
 TITLE: Radioprotection of normal and malignant tissue
 in the
 mouse by diethylaminoreserpine
 AUTHOR(S): Lehnert, Shirley; Fisher, Gillian; Methot, Gilles
 CORPORATE SOURCE: Dep. Radiat. Oncol., McGill Univ., Montreal, PQ,
 Can.
 SOURCE: Int. J. Radiat. Biol. Relat. Stud. Phys., Chem.
 Med.
 (1981), 40(1), 63-73
 CODEN: IURBA3; ISSN: 0020-7616
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Dose-modifying factors for protection by diethylaminoreserpine (I) [
 53-18-9] preirradn. injection ranged from 1.0 for bone marrow
 colony-forming units to >1.8 for skin in mice, and were 1.0 and 1.7
 for
 the EMT6 adenocarcinoma and KHT fibrosarcoma, resp. Acutely hypoxic
 KHT
 tumors were protected to a slightly lesser extent than were aerated
 tumors. For the KHT tumor, the no. of clonogenic cells recovered
 from
 nonirradiated tumors 1 h after I injection was reduced to 60% of the
 no.
 from saline-treated controls, whereas if I-injected mice were acutely
 hypoxic at the time of sacrifice, the no. of clonogenic cells was
 further
 reduced. The survival of nonirradiated EMT6 tumor cells was
 unaffected by
 I injection prior to sacrifice.
 IT 53-18-9
 RL: BIOL (Biological study)
 (radioprotection of animal cell and tumor by)
 RN 53-18-9 CAPLUS
 CN Yohimban-16-carboxylic acid,
 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-
 [(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester,
 (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.

L13 ANSWER 30 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



L13 ANSWER 31 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1981:515455 CAPLUS
 DOCUMENT NUMBER: 95:115455
 TITLE: Synthesis and antimonoamine oxidase activity of inkasan and its analogs
 AUTHOR(S): Glushkov, R. G.; Vasil'evykh, L. G.; Kogan, Z. S.;
 CORPORATE SOURCE: Gorkin, V. Z.
 Vses. Nauchno-Issled. Khim.-Farm. Inst. im.
 Ordzhonikidze, Moscow, USSR
 SOURCE: Khim.-Farm. Zh. (1981), 15(5), 58-62
 CODEN: KHFZAH; ISSN: 0023-1134
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 G1 For diagram(s), see printed CA Issue.
 AB The title compds. I (n = 2, X = Me, H, R = Me) .HCl and I (n = 3, X = H, R = Et).tartrate (II) were prepd. by cyclization of III with POC13 via a dichlorophosphate intermediate. I and II inhibited monoamine oxidase activity.
 IT 54188-33-9
 RL: RCT (Reactant)
 (antimonoamine oxidase activity of)
 RN 54188-33-9 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

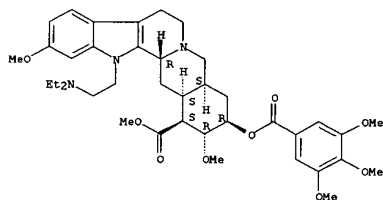


● HCl

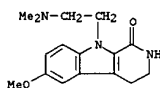
IT 966-86-9
 RL: RCT (Reactant)
 (cyclization of, with phosphorus oxychloride)
 RN 966-86-9 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-6-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 32 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1980:488465 CAPLUS
 DOCUMENT NUMBER: 93:88465
 TITLE: Relationship of cyclic AMP levels to duration of radiation-induced mitotic delay
 AUTHOR(S): Lehnert, Shirley
 CORPORATE SOURCE: Dep. Ther. Radiol., McGill Univ., Montreal, PQ, H3C
 SOURCE: 361. Can.
 Int. J. Radiat. Biol. Relat. Stud. Phys., Chem. Med.
 (1979), 36(4), 417-22
 CODEN: IJRB33; ISSN: 0020-7616
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Caffeine (I) [58-08-2], but not the other Me xanthines tested (theophylline [58-55-9] and IBMX [28822-58-4]), protected against x ray-induced mitotic delay in cultures of CHO cells. The effect of I was not related to intracellular cAMP [60-92-4] level, since I did not induce a change in cAMP level. IBMX, RO 20-1724 [29925-17-5], and diethyl-amino-1-reserpine [53-18-9] which elevated cAMP all induced some delay in the passage of unirradiated cells into mitosis, with varying timing and extent of effect. Synergism between RO 20-1724 and irradiatn. in terms of lengthening the period of mitotic delay was obsd.
 IT 53-18-9
 RL: BIOL (Biological study)
 (x radiation-induced delay of mitosis response to, cAMP in relation to)
 RN 53-18-9 CAPLUS
 CN Yohimban-16-carboxylic acid, 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester, (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

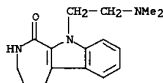


L13 ANSWER 31 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

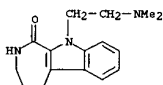


● HCl

IT 54188-27-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and cyclization of, with phosphorus oxychloride)
 RN 54188-27-1 CAPLUS
 CN Azepino[3,4-b]indol-1(2H)-one, 10-[2-(dimethylamino)ethyl]-3,4,5,10-tetrahydro- (9CI) (CA INDEX NAME)



IT 54188-28-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 54188-28-2 CAPLUS
 CN Azepino[3,4-b]indol-1(2H)-one, 10-[2-(dimethylamino)ethyl]-3,4,5,10-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



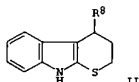
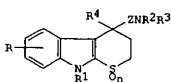
● HCl

L13 ANSWER 32 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

L13 ANSWER 33 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1980:215423 CAPLUS
 DOCUMENT NUMBER: 92:215423
 TITLE: Tetrahydrothiopyrano[2,3-b]indole derivatives
 INVENTOR(S): Makisumi, Yasuo; Takada, Susumu; Sasatani, Takashi;
 Ishizuka, Natsuki
 PATENT ASSIGNEE(S): Shionogi and Co., Ltd., Japan
 SOURCE: Ger. Offen., 62 pp.
 CODEN: GWXKXK
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

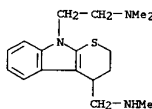
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2921001	A1	19791129	DE 1979-2921001	19790523
JP 55007201	A2	19800119	JP 1978-61832	19780523
US 4256640	A	19810317	US 1979-39382	19790515
AU 7947154	A1	19791129	AU 1979-47154	19790517
AU 522699	B2	19820624		
CA 1129413	A1	19820810	CA 1979-328075	19790518
DK 7902076	A	19791124	DK 1979-2076	19790521
SE 7904493	A	19791124	SE 1979-4493	19790522
FR 2426689	A1	19791221	FR 1979-13023	19790522
FR 2426689	B1	19830128		
ES 480787	A1	19800616	ES 1979-480787	19790522
NL 7904089	A	19791127	NL 1979-4089	19790523
GB 2030133	A	19800402	GB 1979-17937	19790523
GB 2030133	B2	19830302		
ES 484683	A1	19800616	ES 1979-484683	19791003
			JP 1978-61832	19780523

PRIORITY APPLN. INFO.:
 GI



AB Thiopyranoindoles I [R = H, 1 or 2 halo, OH, alkyl, alkoxy, haloalkyl; R1 = H, alkyl, hydroxyalkyl, alkenyl, aralkyl, aryl, COR5 (R5 = alkyl, alkenyl, aryl, alkoxy), Z1NR6R7 (Z1 = alkylene, oxo-, hydroxyalkenylene, R6, R7 = H, alkyl); R2 = H, alkyl; R3 = H, alkyl, hydroxyalkyl, alkenyl, aralkyl, aryl, dialkylaminoalkyl, NR2R3 = 1-pyrrolidinyl, piperidino, piperazino, 4-alkyl-, 4-arylpiperazino, morpholino; R4 = H, alkyl; Z =

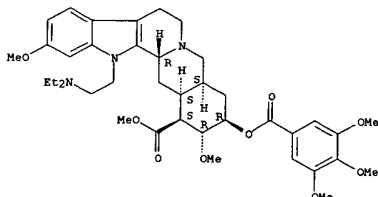
L13 ANSWER 33 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CH2, alkylmethylene, CH2CH2, alkylethylene; n = 0, 1, 2], useful as analgesics and inflammation inhibitors, were prepd. by 11 methods. Thus, sulfuration of oxindole with P2S5 in THF gave 78% 2-indolinethione, which was S-alkylated with HC.tplbond.CCH2Br to give 98% 2-(propargylthio)indole. This was cyclized and cyanated by refluxing in EtOH-NEt3, then treated with KO-CN in aq. EtOH to give 69% nitrile II (R8 = cyano) which was reduced with AlCl3-LiAlH4 in Et2O to give 72% amine II (R8 = CH2NH2). II (R8 = CH2NHMe) oxalate had analgesic ED50 of 4.2 mg/kg in the mouse (AcOH writhing test) and had 66% antiinflammatory activity at 50 mg/kg in the rat (carrageenin edema test).
 IT 73482-09-4F
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 73482-09-4 CAPLUS
 CN Thiopyrano[2,3-b]indole-9(2H)-ethanamine, 3,4-dihydro-N,N-dimethyl-4-[(methylamino)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

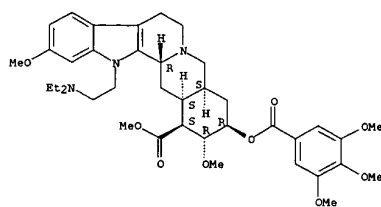
L13 ANSWER 34 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1980:121707 CAPLUS
 DOCUMENT NUMBER: 92:121707
 TITLE: Monoamine oxidase inhibition and brain amine metabolism after oral treatment with tolloxatone in the rat
 AUTHOR(S): Keene, P. E.; Kan, J. P.; Sontag, N.; Strolin-Benedetti, M.
 CORPORATE SOURCE: Cent. Rech. Delalande, Rueil-Malmaison, 92500, Fr.
 SOURCE: J. Pharm. Pharmacol. (1979), 31(11), 752-4
 CODEN: JPPHAB; ISSN: 0022-3573
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Tolloxatone (I) [29218-27-7] (100 mg/kg, orally) in rats reversibly inhibited type A monoamine oxidase (EC 1.4.3.4) (II) [9001-66-5], but did not affect type B II activity in whole brain. Cerebral concns. of noradrenaline [51-41-2], dopamine [51-61-6], and 5-hydroxytryptamine [50-67-9] were increased after I treatment, whereas their metabolite concns. were reduced. Synaptosomal uptake processes of these amines were not altered by I.
 IT 53-18-9
 RL: RCT (Reactant) (as noradrenaline metabolite of brain, tolloxatone reductn. of)
 RN 53-18-9 CAPLUS
 CN Yohimban-16-carboxylic acid, 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester, (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 35 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1980:285 CAPLUS
 DOCUMENT NUMBER: 92:285
 TITLE: Radioprotection of mouse intestine by inhibitors of cyclic AMP phosphodiesterase
 AUTHOR(S): Lehnert, Shirley
 CORPORATE SOURCE: Dep. Ther. Radiol., McGill Univ., Montreal, PQ, Can.
 SOURCE: Int. J. Radiat. Oncol., Biol. Phys. (1979), 5(6), 825-33
 CODEN: IOBPD3; ISSN: 0360-3016
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The survival of colony-forming units of the jejunal crypt was used to assay the radioprotective capacity of various inhibitors of cyclic AMP phosphodiesterase [9036-21-9]. DL-152 [53-18-9], RO-201724 [29925-17-5] and the Me xanthines, caffeine [58-08-2], theophylline [58-55-9] and methylisobutylxanthine (MIX) [28822-58-4] all had some radioprotective effect. The degree of radioprotection depended on the route of administration of the drug and on the timing of administration with respect to irradiation. Optimum survival of crypt stem cells was found following i.p. administration of DL-152 (60 min before irradiation) or MIX (30 min before irradiation), and following i.v. administration of caffeine (60-120 min before irradiation) or theophylline (60 min before irradiation). When these protocols were used, crypt stem cell survival could be enhanced by a factor of from 6 to 7. All the compounds investigated produced some elevation of cyclic AMP [60-92-4] content of the whole jejunum; this was found to be simultaneous with or to precede the period of max. radioprotection. Cyclic AMP was localized with immunofluorescent staining; following injection of DL-152 it was elevated in all parts of the jejunum but to the greatest extent in the lower part of the crypt. Survival curves for crypt stem cells from MIX and DL-152 treated mice showed almost the same exponential slope as the saline-injected control, suggesting that the mechanism of protection does not depend on induction of hypoxia.
 IT 53-18-9
 RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study) (radioprotectant activity of, cyclic AMP phosphodiesterase inhibition in relation to)
 RN 53-18-9 CAPLUS
 CN Yohimban-16-carboxylic acid, 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester, (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (9CI) (CA INDEX NAME)

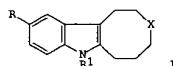
Absolute stereochemistry.



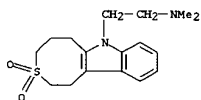
ACCESSION NUMBER: 1979:405217 CAPLUS
 DOCUMENT NUMBER: 91:5217
 TITLE: N,N-Dimethyl-1,2,4,5,6,7-hexahydrothiocino[5,4-b]indole-7-propanamine 3,3,-dioxides and related thiocines
 INVENTOR(S): Cetenko, Wlaczslaw A.; Morrison, Glenn C.
 PATENT ASSIGNEE(S): Warner-Lambert Co., USA
 SOURCE: U.S., 6 pp.
 DOCUMENT TYPE: CODEN: USXXAM
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: English
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4144349	A	19790313	US 1977-863649	19771223

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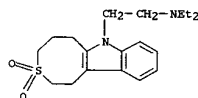


AB The thiocinoindoles I (R = H, C1-6 alkyl, C1-6 alkoxy, halogen; R1 = C1-6 aminoalkyl; X = S, SO) their pharmaceutically acceptable addn. salts were prepd. Thus, 1-thiacyclooctan-5-one 1,1-dioxide was treated with PhNHNH2 in HOAc to give 80% I (R = R1 = H, X = SO) which was treated with Me2N(CH2)3Cl to give 64% I (R = Me2N(CH2)3, R1 = H, X = SO) (II) at 40 mg/kg II had antidepressant activity similar to iprindole.
 IT 70351-09-6P 70351-10-9P 70351-12-1P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 70351-09-6 CAPLUS
 CN Thiocino[5,4-b]indole-7(2H)-ethanamine, 1,4,5,6-tetrahydro-N,N-dimethyl-, 3,3-dioxide (9CI) (CA INDEX NAME)

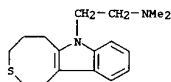


RN 70351-10-9 CAPLUS

CN Thiocino[5,4-b]indole-7(2H)-ethanamine, N,N-diethyl-1,4,5,6-tetrahydro-, 3,3-dioxide (9CI) (CA INDEX NAME)



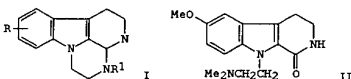
RN 70351-12-1 CAPLUS
 CN Thiocino[5,4-b]indole-7(2H)-ethanamine, 1,4,5,6-tetrahydro-N,N-dimethyl-, 3,3-dioxide (9CI) (CA INDEX NAME)



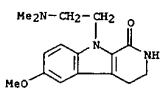
ACCESSION NUMBER: 1979:23110 CAPLUS
 DOCUMENT NUMBER: 90:23110
 TITLE: Pyrazino[1,2,3-ab]-.beta.-carboline derivatives and salts
 INVENTOR(S): Glushkov, R. G.; Mashkovskii, M. D.; Andreeva, N. I.; Liberman, S. S.; Gerchikov, L. N.; Volzskova, V. A.; Zaitseva, A. V.; Magidson, O. Yu.
 PATENT ASSIGNEE(S): USSR
 SOURCE: U.S., 4 pp.
 DOCUMENT TYPE: CODEN: USXXAM
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: English
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4088647	A	19780509	US 1976-746688	19761202
PRIORITY APPLN. INFO.:			US 1973-415841	19731114
			US 1976-655020	19760204

GI

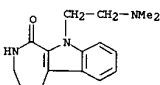


AB Pyrazinocarbolines I (R = H, OMe, lower alkyl; R1 = lower alkyl) were prepd. Thus, I (R = 8-OMe, R1 = Me) was obtained by cyclizing II with POC13 and neutralizing the resulting chlorophosphate with NH4OH. I (R = 8-OMe, R1 = Me) had antidepressant activity (no data).
 IT 67830-39-1
 RL: RCT (Reactant) (cyclization of)
 RN 67830-39-1 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-6-methoxy-, hydrochloride (7CI, 9CI) (CA INDEX NAME)

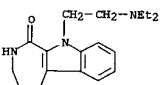


● x HCl

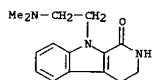
IT 54188-27-1P 54188-32-8P 54188-33-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and cyclization of)
 RN 54188-27-1 CAPLUS
 CN Azepino[3,4-b]indol-1(2H)-one, 10-[2-(dimethylamino)ethyl]-3,4,5,10-tetrahydro- (9CI) (CA INDEX NAME)



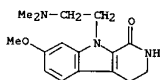
RN 54188-32-8 CAPLUS
 CN Azepino[3,4-b]indol-1(2H)-one, 10-[2-(diethylamino)ethyl]-3,4,5,10-tetrahydro- (9CI) (CA INDEX NAME)



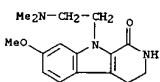
RN 54188-33-9 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



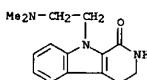
RN 54188-34-0 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-7-methoxy- (9CI) (CA INDEX NAME)



RN 54188-35-1 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-7-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

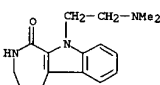


● HCl



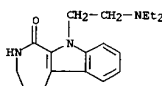
● HCl

IT 54188-28-2P 54188-29-3P 54188-30-6P
 54188-34-0P 54188-35-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 54188-28-2 CAPLUS
 CN Azepino[3,4-b]indol-1(2H)-one, 10-[2-(dimethylamino)ethyl]-3,4,5,10-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

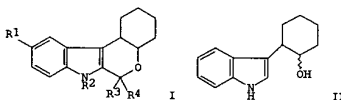
RN 54188-29-3 CAPLUS
 CN Azepino[3,4-b]indol-1(2H)-one, 10-[2-(diethylamino)ethyl]-3,4,5,10-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

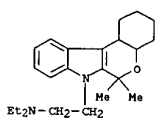
RN 54188-30-6 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-

L13 ANSWER 38 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1978:615259 CAPLUS
 DOCUMENT NUMBER: 89:215259
 TITLE: Octahydro[1]benzopyrano[3,4-b]indoles
 AUTHOR(S): Freter, Kurt
 CORPORATE SOURCE: Pharma Res. Canada Ltd., Pointe Claire, Que., Can.
 SOURCE: Justus Liebigs Ann. Chem. (1978), (8), 1357-64
 CODEN: JLACBF; ISSN: 0075-4617
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI



AB Benzopyranoindoles I (R1 = H, MeO; R2 = H, CH2CH2Net2, R3 = Me, Pr, Ph; R4 = CH2CO2Et, Ph, Me; R3R4 = CH2CH2NacCH2CH2, CH2CH2NHCH2CH2) were prepd. in 38-96% yields by BF3-catalyzed cyclocondensation of indolylcyclohexanols II (.alpha.- and .beta.-OH) with R3COR4. II were prepd. by cycloalkylation of indole with 2-hydroxycyclohexanone and H3PO4 and redn. of the product with NaBH4. Free acids, N,N-dimethylamides, and amide redn. products were prepd. from the above I.

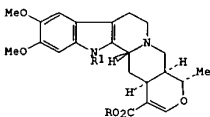
IT 68222-17-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 68222-17-3 CAPLUS
 CN [1]Benzopyrano[3,4-b]indole-7(1H)-ethanamine, N,N-diethyl-2,3,4,4a,6,11c-hexahydro-6,6-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L13 ANSWER 39 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1978:105634 CAPLUS
 DOCUMENT NUMBER: 88:105634
 TITLE: Reserpiline derivatives
 INVENTOR(S): Fukushima, Hideo; Komatsu, Yasuhiro
 PATENT ASSIGNEE(S): Nissin Flour Milling Co., Ltd., Japan
 SOURCE: Japan. Kokai. 5 pp.
 CODEN: JKKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

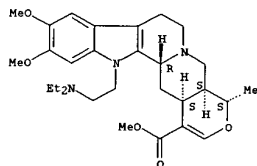
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52093799	A2	19770806	JP 1976-10168	19760202



I

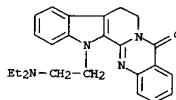
AB Ten reserpiline derivs. I (R = H, alkyl, dialkylaminoalkyl; R1 = alkyl, morpholinoethyl, dimethylaminoalkyl) were prepd. and their antiarrhythmic activity tested. Thus, 4.12 g reserpiline in Me2SO contg. NaH was treated with MeI at room temp. to give 1.5 g N-methylreserpiline. The effective and LDs of I (R = H, R1 = H, Me, Et) were tabulated.
 IT 65644-96-4P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 65644-96-4 CAPLUS
 CN Oxayohimban-16-carboxylic acid, 16,17-didehydro-1-[2-(diethylamino)ethyl]-10,11-dimethoxy-19-methyl-, methyl ester, monohydrochloride, (3.beta.,19.alpha.,20.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

L13 ANSWER 40 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1978:7168 CAPLUS
 DOCUMENT NUMBER: 88:7168
 TITLE: ind-N-Alkylation of rutecarpine and synthesis of novel related heterocyclic ring systems:
 indolo[1',2':3,4]pyrazo[1,2-a]quinazoline and indolo[1',2':3,4][1,4]diazepino[1,2-a]quinazoline
 AUTHOR(S): Danielli, Bruno; Palmisano, Giovanni
 CORPORATE SOURCE: Ist. Chim. Org., Univ. Milano, Milan, Italy
 SOURCE: J. Heterocycl. Chem. (1977), 14(5), 839-44
 CODEN: JHETCAD
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB The failure to obtain the alkylrutecarpines I (R = Et, Bu, isobutyl) by heating rutecarpine (I, R = H) with neat alkyl halides at 120.degree. is compared with the facile reaction with MeI. In contrast, use of alkyl halide-K2CO3 in acetone gave I (R = alkyl) in good yield. Using 1,3-diiodopropane and 1,2-dibromoethane gave II (n = 2, 3), derivs. of indolo[1',2':3,4]pyrazo[1,2-a]quinazoline and indolo[1',2':3,4][1,4]diazepino[1,2-a]quinazolines.
 IT 64837-11-2P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 64837-11-2 CAPLUS
 CN Indolo[2',3':3,4]pyrido[2,1-b]quinazolin-5(7H)-one, 13-[2-(diethylamino)ethyl]-8,13-dihydro-, monohydrochloride (9CI) (CA INDEX NAME)

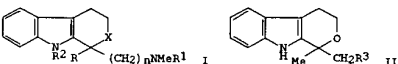


● HCl

L13 ANSWER 41 OF 99 CAPIUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1977:601506 CAPIUS
 DOCUMENT NUMBER: 87:201506
 TITLE: Pharmaceutical method for using pyrano- and
 thiopyrroindole derivatives
 INVENTOR(S): Demerson, Christopher A.; Humber, Leslie G.;
 Asselin,
 Andre A.; Jirkovsky, Ivo; Dobson, Thomas A.
 PATENT ASSIGNEE(S): Ayerst, McKenna and Harrison Ltd., Can.
 SOURCE: U.S., 4 pp. Division of U.S. 4,003,913.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 11
 PATENT INFORMATION:

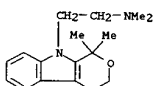
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4041169	A	19770809	US 1976-736624	19761028
US 3852285	A	19741203	US 1972-217627	19720113
ZA 7208875	A	19740731	ZA 1972-8875	19721215
AU 7250439	A1	19740627	AU 1972-50439	19721222
US 3880853	A	19750429	US 1973-377837	19730709
US 4003913	A	19770118	US 1975-555906	19750305
US 4056538	A	19771101	US 1976-733834	19761018
US 4056537	A	19771101	US 1976-733829	19761018
US 4118394	A	19781003	US 1977-822456	19770808
PRIORITY APPLN. INFO.:			US 1972-217627	19720113
			US 1973-377837	19730709
			US 1975-555906	19750305
			US 1974-507085	19740918
			US 1976-733834	19761018

GI



AB Antidepressant and antiulcer (no data) tetrahydropyranoindoles, such
 as I (R = R1 = Me, R2 = H, X = O, n = 2, 3; R = Me, R1 = R2 = H, X = O, n
 = 3; R = Pr, R1 = Me, R2 = H, X = O, n = 2; R = Me, R1 = H, R2 = Pr, X =
 O, n = 2; R = R1 = Me, R2 = Et, X = S, n = 2) were prepd. Thus, tryptophol
 was condensed with AcCH2CO2Et, II (R3 = CO2Et) hydrolyzed, II (R3 = CO2H)
 aminated, and II (R3 = CONMe2) reduced with LiAlH4 to give I (R3 =
 CH2NMe2).
 IT 64759-48-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and redn. of)

L13 ANSWER 41 OF 99 CAPIUS COPYRIGHT 2002 ACS (Continued)
 monohydrochloride (9CI) (CA INDEX NAME)

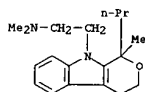


● HCl

RN 64733-85-3 CAPIUS
 RN 64733-86-4 CAPIUS
 CN Pyrano[3,4-b]indole-9(1H)-ethanamine,
 3,4-dihydro-N,N,1-trimethyl-1-propyl-
 , (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

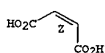
CRN 42821-24-9
 CMF C19 H28 N2 O



CM 2

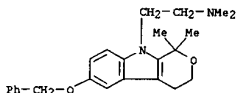
CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



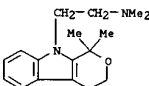
RN 64733-87-5 CAPIUS
 RN 64733-88-6 CAPIUS
 CN Pyrano[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1-trimethyl-1-
 (phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 41 OF 99 CAPIUS COPYRIGHT 2002 ACS (Continued)
 RN 64759-48-4 CAPIUS
 CN Pyrano[3,4-b]indole-9(1H)-ethanamine,
 3,4-dihydro-N,N,1,1-tetramethyl-6-
 (phenylmethoxy)-, monohydrochloride (9CI) (CA INDEX NAME)

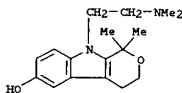


● HCl

IT 42821-20-5P 42821-32-9P 57791-12-5P
 64733-85-3P 64733-86-4P 64733-87-5P
 64733-88-6P 64733-89-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 42821-20-5 CAPIUS
 CN Pyrano[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1,1-tetramethyl-
 (9CI) (CA INDEX NAME)

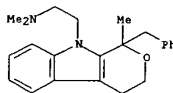


RN 42821-32-9 CAPIUS
 CN Pyrano[3,4-b]indol-6-ol,
 9-[2-(dimethylamino)ethyl]-1,3,4,9-tetrahydro-1,1-
 dimethyl- (9CI) (CA INDEX NAME)



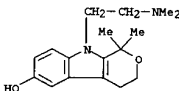
RN 57791-12-5 CAPIUS
 CN Pyrano[3,4-b]indole-9(1H)-ethanamine,
 3,4-dihydro-N,N,1,1-tetramethyl-,

L13 ANSWER 41 OF 99 CAPIUS COPYRIGHT 2002 ACS (Continued)



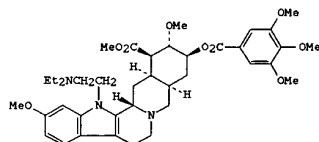
● HCl

RN 64733-89-7 CAPIUS
 CN Pyrano[3,4-b]indol-6-ol,
 9-[2-(dimethylamino)ethyl]-1,3,4,9-tetrahydro-1,1-
 dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L13 ANSWER 42 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1977:448137 CAPLUS
 DOCUMENT NUMBER: 87:48137
 TITLE: Effect of reserpine and its derivatives on release of biogenic amines. Comparative study on the activity of reserpine and diethylaminoethyl-1-reserpine as bitartrates
 AUTHOR(S): Cholet, R.
 CORPORATE SOURCE: Dep. Pharmacol., Firma Lab. Lefrancoq, Romainville, Fr.
 SOURCE: Arzneimittel-Forsch. (1977), 27(5), 1004-5
 CODEN: ARZNAD
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI

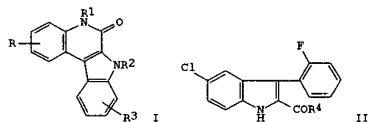


AB Bietaserpine bitartrate [1-(diethylaminoethyl)reserpine bitartrate] (I) {
 1111-44-0} by injection was .gtoreq.200-fold less potent than reserpine in causing depletion of catecholamines in the central nervous system of rats and in causing ptosis palpebralis in mice, an indicator of catecholamine release.
 IT 1111-44-0
 RL: BIOL (Biological study)
 (catecholamine release by brain hypothalamus in response to)
 RN 1111-44-0 CAPLUS
 CN Yohimban-16-carboxylic acid, 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-((3,4,5-trimethoxybenzoyl)oxy)-, methyl ester, (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)-, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (9CI) (CA INDEX NAME)
 CM 1
 CRN 87-69-4
 CMF C4 H6 O6
 Absolute stereochemistry.

L13 ANSWER 43 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1977:439450 CAPLUS
 DOCUMENT NUMBER: 87:39450
 TITLE: Indoloquinolines and intermediates
 INVENTOR(S): Fryer, Rodney Ian; Ning, Robert Ye-Fong; Sternbach, Leo Henryk; Walser, Armin
 PATENT ASSIGNEE(S): Hoffmann-La Roche, Inc., USA
 SOURCE: U.S., 26 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

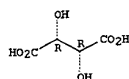
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4014883	A	19770329	US 1975-596684	19750716
CA 1012147	A1	19770614	CA 1973-181739	19730924
FI 7400894	A	19750311	FI 1974-884	19740322
NO 7401039	A	19750311	NO 1974-1039	19740322
SE 7403950	A	19750311	SE 1974-3950	19740322

 PRIORITY APPLN. INFO.:
 US 1972-292193 A2 19720925
 US 1973-395871 A1 19730910
 GI



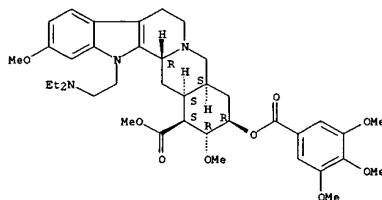
AB Indoloquinolones I (R = H, 2-NO2, 2-Cl, 2-Me, 3-(2-FC6H4), R1, R2 = H, alkyl, aminoalkyl, R3 = H, 11-Cl, 10-Br, 10-Cl, 10-OMe, 10-F, 10-NO2, 8-Cl) were prepd. Thus, 2-FC6H4CH2CHAcCO2Et was condensed with 4-ClC6H4N2Cl, the indolecarboxylate II (R4 = OEt) hydrolyzed and aminated, II (R4 = NHCH2CH2NMe2) cyclized with base to give I (R = R2 = H, R1 = CH2CH2NMe2, R3 = 10-Cl). This compd. had antitumor activity at 100 mg/kg day for 8 days orally or i.p. in mice.
 IT 52865-42-6P 52865-44-8P 52865-53-9P
 52865-67-3P 52865-70-0P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 52865-42-6 CAPLUS
 CN 6H-Indolo[2,3-c]quinolin-6-one, 7-[2-(diethylamino)ethyl]-5,7-dihydro-5-methyl- (9CI) (CA INDEX NAME)

L13 ANSWER 42 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

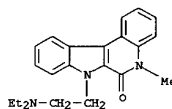


CM 2
 CRN 53-18-9
 CMF C39 H53 N3 O9

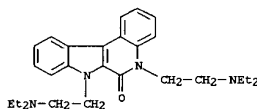
Absolute stereochemistry.



L13 ANSWER 43 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

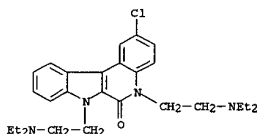


RN 52865-44-8 CAPLUS
 CN 6H-Indolo[2,3-c]quinolin-6-one, 5,7-bis[2-(diethylamino)ethyl]-5,7-dihydro-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

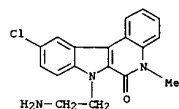
RN 52865-53-9 CAPLUS
 CN 6H-Indolo[2,3-c]quinolin-6-one, 2-chloro-5,7-bis[2-(diethylamino)ethyl]-5,7-dihydro-, dihydrochloride (9CI) (CA INDEX NAME)



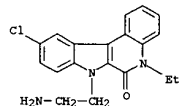
● 2 HCl

RN 52865-67-5 CAPLUS
 CN 6H-Indolo[2,3-c]quinolin-6-one, 7-(2-aminoethyl)-10-chloro-5,7-dihydro-5-

L13 ANSWER 43 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
methyl- (9CI) (CA INDEX NAME)



RN 52865-70-0 CAPLUS
CN 6H-indolo[2,3-c]quinolin-6-one,
7-(2-aminoethyl)-10-chloro-5-ethyl-5,7-
dihydro- (9CI) (CA INDEX NAME)

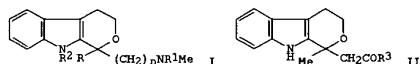


H₂N-CH₂-CH₂

L13 ANSWER 44 OF 99 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1977:155635 CAPLUS
DOCUMENT NUMBER: 86:155635
TITLE: Pyrano- and thiopyranoindole derivatives and
compositions
INVENTOR(S): Demerson, Christopher A.; Humber, Leslie G.;
Asselin,
Andre A.; Jirkovsky, Ivo; Dobson, Thomas A.
PATENT ASSIGNEE(S): Ayerst, McKenna and Harrison Ltd., Can.
SOURCE: U.S., 47 pp. Continuation-in-part of U.S.
3,880,853.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 11
PATENT INFORMATION:

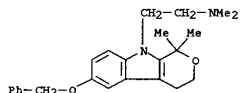
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4003913	A	19770118	US 1975-555906	19750305
US 3852285	A	19741203	US 1972-217627	19720113
ZA 7208875	A	19740731	ZA 1972-8875	19721215
AU 7250439	A1	19740627	AU 1972-50439	19721222
US 3880853	A	19750429	US 1973-377837	19730709
US 4056538	A	19771101	US 1976-733834	19761018
US 4056537	A	19771101	US 1976-733829	19761018
US 4041169	A	19770809	US 1976-736624	19761028
US 4118394	A	19781003	US 1977-822456	19770808
PRIORITY APPLN. INFO.:			US 1972-217627	19720113
			US 1973-377837	19730709
			US 1974-507085	19740918
			US 1975-555906	19750305
			US 1976-733834	19761018

GI

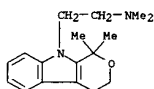


AB Pyranoindoles and thiopyranoindoles including I (R = R₁ = Me, R₂ = H, n = 2, 3; R-R₂ = Me, n = 2; R = Me, R₁ = R₂ = H, n = 3; R = Pr, R₁ = Me, R₂ = H, n = 2) were prepd. Thus, tryptophol was condensed with AcCH₂CO₂Et to give II (R₃ = Et), which was hydrolyzed and the free acid aminated via the mixed anhydride (ClCO₂Et) with MeNH₂ to give II (R₃ = NMe₂), which was reduced with LiAlH₄ to give I (R = R₁ = Me, R₂ = H, n = 2). I were antidepressant in the reserpine antagonist test at 1-15 mg/kg.
IT 62481-45-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

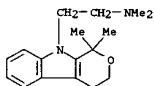
L13 ANSWER 44 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
(prepn. and redn. of)
RN 62481-45-2 CAPLUS
CN Pyrano[3,4-b]indole-9(1H)-ethanamine,
3,4-dihydro-N,N,1,1-tetramethyl-6-
(phenylmethoxy)- (9CI) (CA INDEX NAME)



IT 42821-20-5P 42821-21-6P 42821-24-9P
42821-25-0P 42821-26-1P 42821-27-2P
42821-32-9P 62481-46-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 42821-20-5 CAPLUS
CN Pyrano[3,4-b]indole-9(1H)-ethanamine,
3,4-dihydro-N,N,1,1-tetramethyl-
(9CI) (CA INDEX NAME)



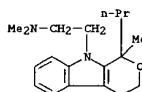
RN 42821-21-6 CAPLUS
CN Pyrano[3,4-b]indole-9(1H)-ethanamine,
3,4-dihydro-N,N,1,1-tetramethyl-
hydrochloride (9CI) (CA INDEX NAME)



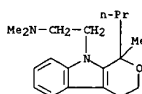
● x HCl

RN 42821-24-9 CAPLUS

L13 ANSWER 44 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
CN Pyrano[3,4-b]indole-9(1H)-ethanamine,
3,4-dihydro-N,N,1-trimethyl-1-propyl-
(9CI) (CA INDEX NAME)

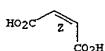


RN 42821-25-0 CAPLUS
CN Pyrano[3,4-b]indole-9(1H)-ethanamine,
3,4-dihydro-N,N,1-trimethyl-1-propyl-
, (2Z)-2-butenedioate (9CI) (CA INDEX NAME)
CH 1
CRN 42821-24-9
CMF C19 H28 N2 O

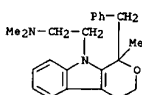


CH 2
CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.

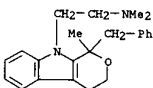


RN 42821-26-1 CAPLUS
CN Pyrano[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1-trimethyl-1-
(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 42821-27-2 CAPLUS

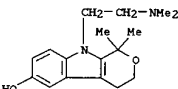
CN Pyrano[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1-trimethyl-1-(phenylmethyl)-, hydrochloride (9CI) (CA INDEX NAME)



●x HCl

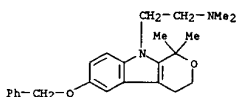
RN 42821-32-9 CAPLUS

CN Pyrano[3,4-b]indole-6-ol, 9-[2-(dimethylamino)ethyl]-1,3,4,9-tetrahydro-1,1-dimethyl- (9CI) (CA INDEX NAME)



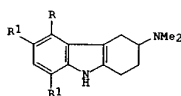
RN 62481-46-3 CAPLUS

CN Pyrano[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1,1-tetramethyl-6-(phenylmethoxy)-, hydrochloride (9CI) (CA INDEX NAME)



●x HCl

L13 ANSWER 45 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1977:114982 CAPLUS
 DOCUMENT NUMBER: 86:114982
 TITLE: 3-Aminotetrahydrocarbazoles as a new series of
 central nervous system agents
 AUTHOR(S): Mooradian, Aram; Dupont, Paul E.; Hlavac, Allan
 G.; Aceto, Mario D.; Pearl, Jack
 CORPORATE SOURCE: Sterling-Winthrop Res. Inst., Rensselaer, N. Y.,
 USA
 SOURCE: J. Med. Chem. (1977), 20(4), 487-92
 CODEN: JMCHAR
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



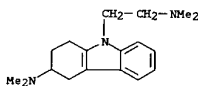
I, R=R1=H
 II, R=Me, R1=H
 III, R=H, R1=F

AB of 75 title compds., prepd. by Fisher cyclization of a cyclohexanone deriv. with a substituted phenylhydrazine, or the displacement reaction of an amine with a 3-(tosyloxy)-1,2,3,4-tetrahydrocarbazole deriv., none were more potent in preventing reserpine-induced ptosis in mice than 3-(dimethylamino)-1,2,3,4-tetrahydrocarbazole (I) [32211-97-5]. The 5-methyl deriv. (II) [60481-58-5] was as active as I in preventing ptosis, but, unlike I, did not prevent amphetamine-induced stereotyped behavior in rats. The 6,8-difluoro deriv. (III) [40594-09-0] was very active in preventing induced stereotyped behavior but inactive in preventing ptosis. Structure-activity relations and correlations with chlorpromazine-like and imipramine-like activities are discussed.

IT 61894-98-2P
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. and central nervous system activity of)

RN 61894-98-2 CAPLUS

CN 9H-Carbazole-9-ethanamine, 3-(dimethylamino)-1,2,3,4-tetrahydro-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

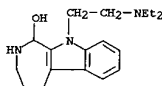
CRN 144-62-7
CMF C2 H2 O4



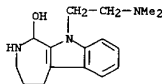
L13 ANSWER 48 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1976:494402 CAPLUS
 DOCUMENT NUMBER: 85:94402
 TITLE: Tetracyclic compounds containing indole nucleus
 PATENT ASSIGNEE(S): Ordzhonikidze, S., All-Union Scientific-Research
 Chemical-Pharmaceutical Institute, USSR
 SOURCE: Japan. Kokai, 9 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 50083398	A2	19750705	JP 1973-129652	19731117
JP 56009510	B4	19810302		

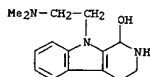
GI For diagram(s), see printed CA Issue.
 AB The tetracyclic compds. I (m, n = 2, 3; R, R1 = H, MeO; R2 = Me, Et) were prepd. by cyclization of the corresponding lactams II with POC13. Thus, a mikt. of 2 g II (m = 2, n = 3, R = R1 = H, R2 = Me) and 10 ml POC13 was heated for 4 hr, concd. and treated with NH4OH to give .apprx.50% I (m = 2, n = 3, R = R1 = H, R2 = Me). I [m, n, R-R2 given]: 2, 3, MeO, H, Me; 3, 3, H, H, Me; 3, 3, H, H, Et; 2, 2, H, H, Me; 2, 2, H, MeO, Me; 3, 2, MeO, H, Me; 2, 2, MeO, H, Me (as hydrochloride) were also prepd.
 IT 60093-53-0P 60093-55-2P 60093-56-3P
 60093-57-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and cyclization of)
 RN 60093-53-0 CAPLUS
 CN Azepino[3,4-b]indol-1-ol, 10-[2-(diethylamino)ethyl]-1,2,3,4,5,10-hexahydro- (9CI) (CA INDEX NAME)



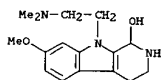
RN 60093-55-2 CAPLUS
 CN Azepino[3,4-b]indol-1-ol, 10-[2-(dimethylamino)ethyl]-1,2,3,4,5,10-hexahydro- (9CI) (CA INDEX NAME)



RN 60093-56-3 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-ol, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



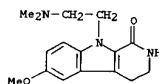
RN 60093-57-4 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-ol, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-7-methoxy- (9CI) (CA INDEX NAME)



L13 ANSWER 49 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1976:31133 CAPLUS
 DOCUMENT NUMBER: 84:31133
 TITLE: Tetracyclic indole compounds
 PATENT ASSIGNEE(S): Ordzhonikidze, S., All-Union Scientific-Research
 Chemical-Pharmaceutical Institute, USSR
 SOURCE: Brit., 6 pp.
 CODEN: BROKAA
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

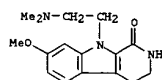
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1409935	A	19751015	GB 1973-54150	19731122

GI For diagram(s), see printed CA Issue.
 AB Twelve title compds. I (n, m = 1, 2; R = Me, Et; R1, R2 = H, MeO) and I acid addn. salts were prepd. (40-88%) from the lactams II or II.HCl by heating with POC13 followed by treatment with aq. NH3 or EtOH. Thus, I (n = m = 1, R = Me, R1 = MeO, R2 = H) was prepd. (.apprx.88%) from II by successive boiling 4 hr with POC13 and 1 hr with EtOH; this compd. is useful as an antidepressant.
 IT 966-86-9 54188-35-1
 RL: RCT (Reactant) (cyclization of)
 RN 966-86-9 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-6-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)



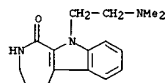
● HCl

RN 54188-35-1 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-7-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

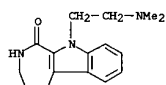


● HCl

IT 54188-27-1P 54188-28-2P 54188-29-3P
 54188-30-6P 54188-32-8P 54188-33-9P
 RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and cyclization of)
 RN 54188-27-1 CAPLUS
 CN Azepino[3,4-b]indol-1(2H)-one, 10-[2-(dimethylamino)ethyl]-3,4,5,10-tetrahydro- (9CI) (CA INDEX NAME)

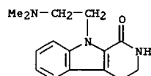


RN 54188-29-2 CAPLUS
 CN Azepino[3,4-b]indol-1(2H)-one, 10-[2-(dimethylamino)ethyl]-3,4,5,10-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

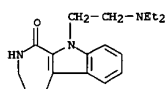


● HCl

RN 54188-29-3 CAPLUS
 CN Azepino[3,4-b]indol-1(2H)-one, 10-[2-(diethylamino)ethyl]-3,4,5,10-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

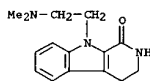


● HCl

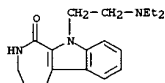


● HCl

RN 54188-30-6 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)

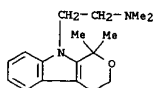


RN 54188-32-8 CAPLUS
 CN Azepino[3,4-b]indol-1(2H)-one, 10-[2-(diethylamino)ethyl]-3,4,5,10-tetrahydro- (9CI) (CA INDEX NAME)



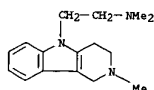
RN 54188-33-9 CAPLUS
 CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 1976:30939 CAPLUS
 DOCUMENT NUMBER: 84:30939
 TITLE: Novel class of potential antidepressants,
 1-aminoalkyl-1,3,4,9-tetrahydropyrano[3,4-b]indoles
 AUTHOR(S): Humber, Leslie G.; Demerson, Christopher A.; Asselin, Andre A.; Charest, Marie P.; Pelz, Karel
 CORPORATE SOURCE: Dep. Chem., Ayerst Res. Lab., Montreal, Que., Can.
 SOURCE: Eur. J. Med. Chem. - Chim. Ther. (1975), 10(3), 215-20
 CODEN: EJMCA5
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB (Aminoalkyl)pyranoindoles I (R = H, Me, Et, Pr; R1 = H, 6-MeO, 6-PhCH2O, 6-HO, 5-Cl, 5-Me; R3 = H, Me, Et; R4 = Me, Et; NR3R4 = pyrrolidino, piperidino, morpholino, N-methylpiperazino; n = 2, 3) (24 compds.) were prepd. and their acute toxicities and antidepressant activities were detd. Condensation of MeCO(CH2)nCO2Et (n = 1, 2) with indoleethanol II and subsequent alkylation with RX (X = halo) and hydrolysis gave acids III (n = 1, 2). Amidation of III (n = 1, 2) with R3R4NH followed by redn. with LiAlH4 gave I (n = 2, 3). I.HCl (R = Me, R1 = H, R3R4N = Me2N, n = 2) (V) had an ED50 of 0.51 mg/kg i.p. in mice in the prevention of reserpine-induced ptosis. The enantiomers of V had the same magnitude of activity as the racemate.
 IT 57791-12-5P
 RI: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. and antidepressant activity of)
 RN 57791-12-5 CAPLUS
 CN Pyrano[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1,1-tetramethyl-, monohydrochloride (9CI) (CA INDEX NAME)

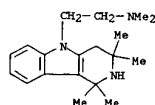


● HCl

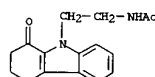
L13 ANSWER 52 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1975:508140 CAPLUS
 DOCUMENT NUMBER: 83:108140
 TITLE: Relation between the chemical structure and pharmacological activity of carboline derivatives
 AUTHOR(S): Barkov, N. K.; Kucherova, N. F.
 CORPORATE SOURCE: Inst. Farmakol., Moscow, USSR
 SOURCE: Khim.-Farm. Zh. (1975), 9(4), 6-10
 CODEN: KHFZAN
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI For diagram(s), see printed CA Issue.
 AB Twenty-one carboline deriva. were tested in mice for their effects on body temp., thiopental narcosis, aggression, locomotion, and pain. All of the compds. decreased body temp., I [56223-54-2] being most effective and decreasing body temp. by 8.7.degree.. Only 7 compds., including I, prolonged thiopental narcosis. All but 4 had antiaggressive effects, 3,6-dimethyl-1,2,3,4,8a-hexahydro-gamma-carboline-2HCl [34273-20-6] being most active. All but 2 were analgetic. Pharmacol. activity of these compds. depended on the arom. nucleus and on the position 6 of the cycle.
 IT 6208-56-6 56223-43-9 56223-44-0
 RL: BIOL (Biological study)
 (nervous system depressant)
 RN 6208-56-6 CAPLUS
 CN 5H-Pyrido[4,3-b]indole-5-ethanamine, 1,2,3,4-tetrahydro-N,N,1,1,3,3-hexamethyl- (9CI) (CA INDEX NAME)



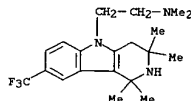
RN 56223-43-9 CAPLUS
 CN 5H-Pyrido[4,3-b]indole-5-ethanamine, 1,2,3,4-tetrahydro-N,N,1,1,3,3-hexamethyl- (9CI) (CA INDEX NAME)



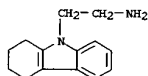
L13 ANSWER 51 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1975:531553 CAPLUS
 DOCUMENT NUMBER: 83:131553
 TITLE: Pyrazino[1,2-a]- and 1,4-diazepino[1,2-a]indoles. Synthesis of
 pyrrolo[2',1':3,4]pyrazino[1,2-a]indoles and -1,4-diazepino[1,2-a]indoles, isoindolo[2',1':3,4]pyrazino[1,2-a]indoles and -1,4-diazepino[1,2-a]indoles, pyrazino[3,2,1-jk]carbazoles and
 1,4-diazepino[3,2,1-jk]carbazoles
 AUTHOR(S): Gatta, F.; Chiavarelli, S.
 CORPORATE SOURCE: Lab. Chim. Ter., Ist. Super Sanita, Rome, Italy
 SOURCE: Farmaco, Ed. Sci. (1975), 30(8), 631-41
 CODEN: FRPSAX
 DOCUMENT TYPE: Journal
 LANGUAGE: Italian
 GI For diagram(s), see printed CA Issue.
 AB Condensed indoles I and II (X = CH2, CH2CH2, X1 = O, R = H, Me, Ph) were prepd. by cyclizing 1-(aminoalkyl)indoles with RCOCH2CH2CO2H or o-ROCGH4CO2H. They were reduced to I and II (X1 = H2) with LiAlH4.
 I rearranged with HCl to III (R = H, Me, Ph, R1 = H, X = CH2, X1 = O).
 III (RR1 = bond, X = CH2, CH2CH2, X1 = H2) were prepd. by hydrolyzing IV and were reduced to III (R = R1 = H) with NaBH4 or to III (R = H, R1 = Me) with NaBH4-MeI. Treatment of III (RR1 = bond) with Ac2O gave N-acetylation with rearrangement of the double bond. But N-acetyl derivs. were aromatized with Pd-C. The oxime of III (X = CH2, X1 = O, R = Me, R1 = H) underwent Beckmann rearrangement to V (X2 = CONH, NHCO).
 IT 56903-44-7
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and hydrolysis of)
 RN 56903-44-7 CAPLUS
 CN Acetamide, N-[2-(1,2,3,4-tetrahydro-1-oxo-9H-carbazol-9-yl)ethyl]- (9CI) (CA INDEX NAME)



RN 56223-44-0 CAPLUS
 CN 5H-Pyrido[4,3-b]indole-5-ethanamine, 1,2,3,4-tetrahydro-N,N,1,1,3,3-hexamethyl-8-(trifluoromethyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 53 OF 99 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1975:45350 CAPLUS
DOCUMENT NUMBER: 83:53350
TITLE: Pharmacological properties of new derivatives of propionic acid, dimethylindole, and tetrahydrocarbazole
AUTHOR(S): Kleinrok, Zdzislaw; Przegalinski, Edmund; Jagiello-Wojtowicz, Ewa; Kruszewska, Alicja
CORPORATE SOURCE: Wyd. Lek., Akad. Med., Lublin, Pol.
SOURCE: Ann. Univ. Mariae Curie-Skłodowska, Sect. D (1973),
28, 227-33
CODEN: AUMKAS
DOCUMENT TYPE: Journal
LANGUAGE: Polish
GI For diagram(s), see printed CA Issue.
AB When injected i.p. into mice,
.beta.-(2,3-cyclopentano-1-indolyl)propionic acid hydrazide (I),
.beta.-(1,2,3,4-tetrahydro-9-carbazolyl)propionic acid hydrazide [21144-98-9], .beta.-(2,3-cycloheptano-1-indolyl)propionic acid hydrazide, .beta.-(1,2-benzo-3,4-dihydro-9-carbazolyl)propionic acid hydrazide [21144-99-0], and .beta.-(2,3-dimethyl-1-indolyl)propionic acid hydrazide [40861-76-5] or 23 new propionate, dimethylindole, and tetrahydrocarbazole deriva. had a depressive effect on the central nervous system. The preps. had a weak hypothermic effect, potentiated the action of hexobarbital (35-80 .mu.g/Kg, i.p.), and inhibited the spontaneous activity of the animals.
IT 23690-88-2 52872-28-3 52872-34-1
RL: BIOL (Biological study)
(central nervous system depressant)
RN 23690-88-2 CAPLUS
CN 9H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-, hydrochloride (9CI)
(CA INDEX NAME)



• x HCl

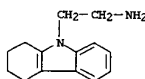
RN 52872-28-3 CAPLUS
CN 9H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-, sulfate (9CI) (CA INDEX NAME)

L13 ANSWER 53 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



L13 ANSWER 53 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

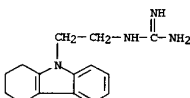
CM 1
CRN 23709-72-0
CMF C14 H18 N2



CM 2
CRN 7664-93-9
CMF H2 O4 S



RN 52872-34-1 CAPLUS
CN Guanidine, [2-(1,2,3,4-tetrahydro-9H-carbazol-9-yl)ethyl]-, sulfate (9CI)
(CA INDEX NAME)
CM 1
CRN 46972-37-6
CMF C15 H20 N4



CM 2
CRN 7664-93-9
CMF H2 O4 S

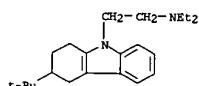
L13 ANSWER 54 OF 99 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1975:170666 CAPLUS
DOCUMENT NUMBER: 82:170666
TITLE: 9-(2-Aminoethyl)-3-tert-butyl-1,2,3,4-tetrahydrocarbazoles
INVENTOR(S): Cross, Peter E.; Dickinson, Roger P.; Kemp, John E. G.
PATENT ASSIGNEE(S): Pfizer Corp.
SOURCE: Ger. Offen., 17 pp.
CODEN: GWXKEX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2425767	A1	19750109	DE 1974-2425767	19740528
GB 1418703	A	19751224	GB 1973-26414	19730602
BE 815584	A1	19741127	BE 1974-144793	19740527
NL 7407170	A	19741204	NL 1974-7170	19740529
US 3931222	A	19760106	US 1974-474151	19740529
JP 50058066	A2	19750520	JP 1974-60330	19740530
FR 2231390	A1	19741227	FR 1974-19003	19740531
DK 7402958	A	19750324	DK 1974-2958	19740531
DK 136245	B	19770912		
US 3970757	A	19760720	US 1975-622798	19751015
PRIORITY APPLN. INFO.:			GB 1973-26414	19730602
			US 1974-474151	19740529

GI For diagram(s), see printed CA Issue.
AB Seven carbazoles I (R = CH2CH2NR1R2, R1 = R2 = Me or Et or NR1R2 = 1-pyrrolidinyl or its N-oxide, morpholino, 1-azepinyl, or dioxide of thiomorpholino), useful as antisecretory agents, were prepd. mainly as salts, e.g. hydrochlorides, by reaction of I (R = H with RCl in DMF in the presence of NaH on a steam bath optionally followed by salt formation or N-oxidn.
IT 55160-59-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and antisecretory activity of)
RN 55160-59-3 CAPLUS
CN 9H-Carbazole-9-ethanamine, 3-(1,1-dimethylethyl)-N,N-diethyl-1,2,3,4-tetrahydro-, ethanedioate (9CI) (CA INDEX NAME)

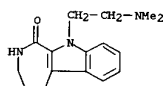
CM 1
CRN 55160-58-2
CMF C22 H34 N2



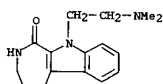
CM 2
CRN 144-62-7
CMF C2 H2 O4



L13 ANSWER 55 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
RN 54188-27-1 CAPLUS
CN Azepino[3,4-b]indol-1(2H)-one, 10-[2-(dimethylamino)ethyl]-3,4,5,10-tetrahydro- (9CI) (CA INDEX NAME)

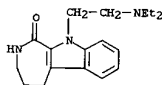


RN 54188-28-2 CAPLUS
CN Azepino[3,4-b]indol-1(2H)-one, 10-[2-(dimethylamino)ethyl]-3,4,5,10-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 54188-29-3 CAPLUS
CN Azepino[3,4-b]indol-1(2H)-one, 10-[2-(diethylamino)ethyl]-3,4,5,10-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



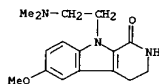
● HCl

RN 54188-30-6 CAPLUS
CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)

L13 ANSWER 55 OF 99 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1974:491594 CAPLUS
DOCUMENT NUMBER: 81:91594
TITLE: 1,2,5,6-Tetrahydro-3H-pyrazino[1,2,3-ab]-.beta.-carboline and homologs
INVENTOR(S): Glushkov, R. G.; Mashkovskii, M. D.; Andreeva, N. I.;
A.; Liberman, S. S.; Gerchikov, L. N.; Volskova, V.
PATENT ASSIGNEE(S): Zaitseva, A. V.; Magidson, O. Yu.
SOURCE: Ordzhonikidze, S., All-Union Scientific-Research Chemical-Pharmaceutical Institute
CODEN: GWXKEX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2357320	A1	19740522	DE 1973-2357320	19731116
DE 2357320	C3	19791108		
DE 2357320	B2	19790322		
SU 434739	A1	19931130	SU 1972-1846675	19721117
SU 1972-1846675				19721117

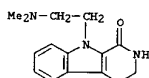
PRIORITY APPLN. INFO.:
GI For diagram(s), see printed CA Issue.
AB Seven condensed indoles (I; m, n = 1 or 2; R = Me or Et; R1 = H, 8- or 9-MeO) and their salts, useful as antidepressants, were prep'd. from the indoles II by successive treatment with POC13 and NH4OH or EtOH.
IT 966-86-9
RL: RCT (Reactant) (cyclization of)
RN 966-86-9 CAPLUS
CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-6-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)



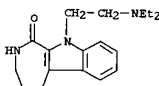
● HCl

IT 54188-27-1P 54188-28-2P 54188-29-3P
54188-30-6P 54188-32-8P 54188-33-9P
54188-34-0P 54188-35-1P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

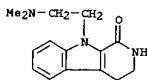
L13 ANSWER 55 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 54188-32-8 CAPLUS
CN Azepino[3,4-b]indol-1(2H)-one, 10-[2-(diethylamino)ethyl]-3,4,5,10-tetrahydro- (9CI) (CA INDEX NAME)

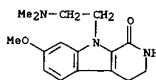


RN 54188-33-9 CAPLUS
CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

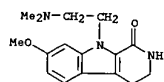


● HCl

RN 54188-34-0 CAPLUS
CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-7-methoxy- (9CI) (CA INDEX NAME)



RN 54188-35-1 CAPLUS
CN 1H-Pyrido[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-

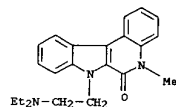


● HCl

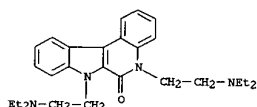
L13 ANSWER 56 OF 99 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1974:413480 CAPLUS
DOCUMENT NUMBER: 81:13480
TITLE: Polycyclic compounds
INVENTOR(S): Fryer, Rodney I.; Ning, Robert Y. F.; Sternbach, Leo
PATENT ASSIGNEE(S): H. J. Walser, Armin
SOURCE: Hoffmann-La Roche, F., und Co., A.-G.
Ger. Offen., 110 pp.
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2348149	A1	19740404	DE 1973-2348149	19730925
ZA 7305679	A	19740731	ZA 1973-5679	19730820
JP 49069698	A2	19740705	JP 1973-106066	19730921
BE 805159	A1	19740325	BE 1973-135940	19730924
FR 2200004	A1	19740419	FR 1973-34085	19730924
DD 109388	C	19741112	DD 1973-173636	19730924
AU 7360620	A1	19750327	AU 1973-60620	19730924
GB 1400934	A	19750723	GB 1973-44691	19730924
SU 525428	D	19760815	SU 1973-1959333	19730924
AT 7308188	A	19770415	AT 1973-8188	19730924
AT 340425	B	19771212		
NL 7313186	A	19740327	NL 1973-13186	19730925
HU 168788	P	19760728	HU 1973-H01616	19730925
ES 419019	A1	19760616	ES 1974-419019	19740924

PRIORITY APPL. INFO.: US 1972-292193 A 19720925
GI For diagram(s), see printed CA Issue.
AB Carcinostatic indoloquinolinones I (R = H, Cl, Me, NO₂; R₁ = H, aminoalkyl, Me, Et, CH₂CH₂OH; R₂ = H, CH₂CH₂NMe₂, CH₂CH₂Net₂, Me, Et, allyl, CH₂OMe, CH₂CN; R₃ = H, 10-Cl, 10-Br, 10-OMe, 10-Et, 10-F, 10-NO₂, 8-Cl, 11-Cl, 11-F) and some N-oxides (44 compds.) were prepd. Thus, 2-PhCOC6-H4NHCOCH₂Br was cyclized with NaN₃ to give 3-azido-4-phenylcarbostyryl, which on cyclization with Me₂NCH₂CH₂Cl.-HCl gave I (R = R₂ = R₃ = H, R₁ = CH₂CH₂NMe₂). I (R = R₂ = H, R₁ = CH₂CH₂NMe₂, R₃ = 10-Cl) at 100 mg/kg day orally for 8 days in sarcoma 180-infected mice gave a control/ treated tumor wt. ratio of 3.05; its LD₅₀ was >4000 mg/kg orally.
IT 52865-42-6P 52865-44-6P 52865-53-9P
52865-58-4P 52865-67-5P 52865-70-0P
RI: SPN (Synthetic preparation); FREE (Preparation) (prepn. of)
RN 52865-42-6 CAPLUS
CN 6H-Indolo[2,3-c]quinolin-6-one, 7-(2-(diethylamino)ethyl)-5,7-dihydro-5-methyl- (9CI) (CA INDEX NAME)

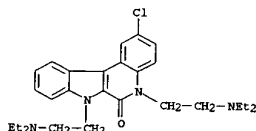


RN 52865-44-8 CAPLUS
CN 6H-Indolo[2,3-c]quinolin-6-one, 5,7-bis(2-(diethylamino)ethyl)-5,7-dihydro-, dihydrochloride (9CI) (CA INDEX NAME)



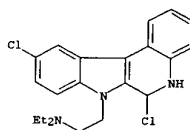
● 2 HCl

RN 52865-53-9 CAPLUS
CN 6H-Indolo[2,3-c]quinolin-6-one, 2-chloro-5,7-bis(2-(diethylamino)ethyl)-5,7-dihydro-, dihydrochloride (9CI) (CA INDEX NAME)

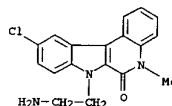


● 2 HCl

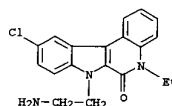
RN 52865-58-4 CAPLUS
CN 7H-Indolo[2,3-c]quinoline-7-ethanamine, 6,10-dichloro-N,N-diethyl-5,6-



RN 52865-67-5 CAPLUS
CN 6H-Indolo[2,3-c]quinolin-6-one, 7-(2-aminoethyl)-10-chloro-5,7-dihydro-5-methyl- (9CI) (CA INDEX NAME)



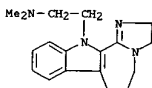
RN 52865-70-0 CAPLUS
CN 6H-Indolo[2,3-c]quinolin-6-one, 7-(2-aminoethyl)-10-chloro-5-ethyl-5,7-dihydro- (9CI) (CA INDEX NAME)



L13 ANSWER 57 OF 99 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1974:59942 CAPLUS
DOCUMENT NUMBER: 80:59942
TITLE: 2,3,6,7-Tetrahydro-5H-imidazo [1,2-a]azepino[3,4-b]indole
INVENTOR(S): Glushkov, R. G.; Zaitseva, A. V.
PATENT ASSIGNEE(S): Ordzhonikidze, S., All-Union Scientific-Research Chemical-Pharmaceutical Institute
SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom.
Obraztsey,
Tovarnye Znaki 1973, 50(38), 72.
CODEN: URXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

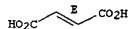
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 398547	T	19730927	SU 1971-1709537	19711028

GI For diagram(s), see printed CA issue.
AB Imidazoazepinoindoles I (R = H, alkyl, dialkylaminoalkyl) were
prepd. by
the reaction of 1-alkoxy-4,5-dihydro-3H-azepino[3,4-b]indole with
ClCH2CH2NH2.HCl to give I.HCl (R = H), which was treated with base
and an
alkylating agent, e.g. Me2NCH2CH2Cl, to give, I (R = Me2NCH2CH2).
IT 51549-81-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 51549-81-6 CAPLUS
CN Imidazo[1',2':1,2]azepino[3,4-b]indole-12(3H)-ethanamine,
2,5,6,7-tetrahydro-N,N-dimethyl- (9CI) (CA INDEX NAME)



L13 ANSWER 58 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
CRN 110-17-8
CHF C4 H4 O4

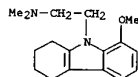
Double bond geometry as shown.



RN 50823-71-7 CAPLUS
CN 9H-Carbazole-9-ethanamine,
1,2,3,4-tetrahydro-9-methoxy-N,N-dimethyl-,
(2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CH 1

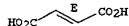
CRN 50823-70-6
CHF C17 H24 N2 O



CH 2

CRN 110-17-8
CHF C4 H4 O4

Double bond geometry as shown.

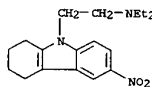


L13 ANSWER 58 OF 99 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1974:10279 CAPLUS
DOCUMENT NUMBER: 80:10279
TITLE: Synthetic trypanocides. 3. Structure-activity relations
AUTHOR(S): Poliakoff, Nora; Albonico, Sem M.; Alvarez, Manuel;
Gallo Pecca, Jorge; Vernengo, Marcelo J.
CORPORATE SOURCE: Fac. Farm. Bioquim., Buenos Aires, Argent.
SOURCE: J. Med. Chem. (1973), 16(12), 1411
CODEN: JMCHAR
DOCUMENT TYPE: Journal
LANGUAGE: English
AB 8-Methoxy-9-(2-piperidin-1-ylethyl)-1,2,3,4-tetrahydro-9H-carbazole
fumarate (I fumarate) [49558-40-9] was the most active trypanocide of

19
carbazoles prepd. When tested on the epimastigote stage of
Trypanosoma
cruzi in a liq culture medium, 70 .mu.g I fumarate/ml was the min.
useful
concn. and when the same test was performed in blood on the
trypanostigote
stage, the activity was 200 .mu.g I fumarate/ml. The LD50 of I
fumarate
was 200-220 mg/kg i.p. in mice. In mice, infected with T. cruzi (4
.tim.
105), a dose killing 90% of the controls, 5 daily injections (i.p.)
of 100
mg 8-chloro-5,6-dihydro-11H-benzo[a]carbazole (II) [49561-97-9]/kg 2
days
after infection, the survival increased to 60%. II was prepd from
.alpha.-tetralone [529-34-0] in HOAc and 4-chlorophenylhydrazine
[1073-69-4].
IT 50823-67-1P 50823-71-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 50823-67-1 CAPLUS
CN 9H-Carbazole-9-ethanamine, N,N-diethyl-1,2,3,4-tetrahydro-6-nitro-,
(2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CH 1

CRN 50823-66-0
CHF C18 H25 N3 O2



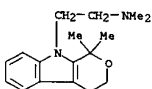
CH 2

L13 ANSWER 59 OF 99 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1973:492001 CAPLUS
DOCUMENT NUMBER: 79:92001
TITLE: Pyranol[3,4-b]indole and thiopyranol[3,4-b]indole
derivatives
INVENTOR(S): Demerson, Christopher A.; Humber, Leslie G.;
Asselin,
Andre A.; Jirkovsky, Ivo L.; Dobson, Thomas A.;
Pelz,
Karel
PATENT ASSIGNEE(S): Ayerst, McKenna and Harrison Ltd.
SOURCE: Ger. Offen., 171 pp.
CODEN: GWXXRX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 11
PATENT INFORMATION:

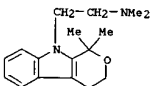
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2301525	A1	19730719	DE 1973-2301525	19730112
US 3852285	A	19741203	US 1972-217627	19720113
US 3904617	A	19750909	US 1972-297130	19721012
ZA 7208875	A	19740731	ZA 1972-8875	19721215
AU 7250439	A1	19740627	AU 1972-50439	19721222
US 4056538	A	19771101	US 1976-733834	19761018
US 4056537	A	19771101	US 1976-733829	19761018
US 4118394	A	19781003	US 1977-822456	19770808

PRIORITY APPLN. INFO.:
US 1972-217627 19720113
US 1972-297130 19721012
US 1974-507085 19740918
US 1976-733834 19761018

GI For diagram(s), see printed CA issue.
AB Antidepressant tetrahydropyranoindoles I (X = O, R = Me, R1 = Me, Pr,
R2 =
H, Pr, n = 2; X = O, R = H, Me, R1 = Me, R2 = H, n = 3; X = S, R = R1
= Me, R2 = Et, n = 2) (.apprx.90 compds.) were prepd. Thus,
1H-indole-3-ethanol was cyclized with MeCOCH2CO2Et in the presence of
mol.
sieve no. 4 and p-MeC6H4SO3H ester to give II (R3 = OEt) which was
hydrolyzed to the acid, treated with ClCO2Et to form the mixed
anhydride,
which with Me2NH gave II (R3 = NMe2). LiAlH4 reduct. of the amide gave
I (X
= O, R = R1 = Me, R2 = H, n = 2).
IT 42821-20-EP 42821-21-EP 42821-24-EP
42821-25-OP 42821-26-1P 42821-27-2P
42821-31-8P 42821-32-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 42821-20-5 CAPLUS
CN Pyranol[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1,1-tetramethyl-
(9CI) (CA INDEX NAME)

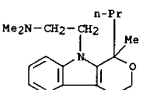


RN 42821-21-6 CAPLUS
CN Pyrano[3,4-b]indole-9(1H)-ethanamine,
3,4-dihydro-N,N,1,1-tetramethyl-,
hydrochloride (9CI) (CA INDEX NAME)



● x HCl

RN 42821-24-9 CAPLUS
CN Pyrano[3,4-b]indole-9(1H)-ethanamine,
3,4-dihydro-N,N,1-trimethyl-1-propyl-,
(9CI) (CA INDEX NAME)

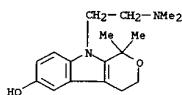


RN 42821-25-0 CAPLUS
CN Pyrano[3,4-b]indole-9(1H)-ethanamine,
3,4-dihydro-N,N,1-trimethyl-1-propyl-,
(2Z)-2-butenedioate (9CI) (CA INDEX NAME)

CH 1

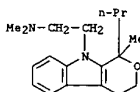
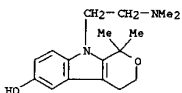
CRN 42821-24-9
CMF C19 H28 N2 O

RN 42821-31-8 CAPLUS
CN Pyrano[3,4-b]indol-6-ol,
9-[2-(dimethylamino)ethyl]-1,3,4,9-tetrahydro-1,1-
dimethyl-, hydrochloride (9CI) (CA INDEX NAME)



● x HCl

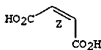
RN 42821-32-9 CAPLUS
CN Pyrano[3,4-b]indol-6-ol,
9-[2-(dimethylamino)ethyl]-1,3,4,9-tetrahydro-1,1-
dimethyl-, hydrochloride (9CI) (CA INDEX NAME)



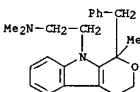
CH 2

CRN 110-16-7
CMF C4 H4 O4

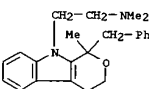
Double bond geometry as shown.



RN 42821-26-1 CAPLUS
CN Pyrano[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1-trimethyl-1-
(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 42821-27-2 CAPLUS
CN Pyrano[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1-trimethyl-1-
(phenylmethyl)-, hydrochloride (9CI) (CA INDEX NAME)



● x HCl

ACCESSION NUMBER: 1973:487329 CAPLUS
DOCUMENT NUMBER: 79:87329
TITLE: N-Alkylaminocarbazoles as potential
anticonvulsant and

diuretic agents
AUTHOR(S): Shueb, Aboo; Anwer, Falak; Kapil, Randhir S.,
Popli,

Satya P.; Dua, Prithvi; Dhawan, Bhola N.
CORPORATE SOURCE: Div. Med. Chem., Cent. Drug Res. Inst., Lucknow,
India

SOURCE: J. Med. Chem. (1973), 16(4), 425-7
CODEN: JMCMAH

DOCUMENT TYPE: Journal
LANGUAGE: English

AB Of a no. of alkylaminocarbazoles and their analogs synthesized,
9-(dimethylaminopropyl)-2-methoxycarbazole (I) [41562-73-6] and
2-chloro-9-(dimethylaminopropyl)-7-methoxycarbazole [41562-74-7] at
30 and

50 mg/kg i.p. resp., gave the best (100%) protection of mice against

max. electroshock seizures. None of the compds. protected against
pentylentetrazole- or strychnine-induced convulsions, inhibited
monoamine

oxidase, or affected forced locomotor activity. A no. of compds.
showed

diuretic activity in rats; the most active, 2-methoxy-9-[(1-
pyrrolidinyl)ethyl]carbazole [41544-29-0] (37.5 mg/kg orally) was
twice as

potent as chlorothiazide. The compds. were prepd. by condensing the
appropriate 2-bromonitrobenzene and iodobenzenes and cyclizing the
resulting biphenyls with triethyl phosphite.

IT 41734-56-9P 41734-57-0P 41734-60-5P
41734-63-8P 41734-65-0P

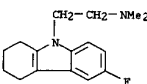
RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. and anticonvulsant and diuretic activities of)

RN 41734-56-9 CAPLUS
CN 9H-Carbazole-9-ethanamine, 6-fluoro-1,2,3,4-tetrahydro-N,N-dimethyl-,
ethanedioate (1:1) (9CI) (CA INDEX NAME)

CH 1

CRN 48177-67-9
CMF C16 H21 F N2



CH 2

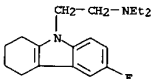
L13 ANSWER 60 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
CRN 144-62-7
CMF C2 H2 O4



RN 41734-57-0 CAPLUS
CN 9H-Carbazole-9-ethanamine, N,N-diethyl-6-fluoro-1,2,3,4-tetrahydro-,
ethanedioate (1:1) (9CI) (CA INDEX NAME)

CH 1

CRN 25150-81-6
CMF C18 H25 F N2



CH 2

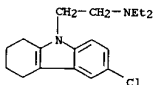
CRN 144-62-7
CMF C2 H2 O4



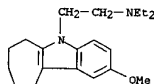
RN 41734-60-5 CAPLUS
CN 9H-Carbazole-9-ethanamine, 6-chloro-N,N-diethyl-1,2,3,4-tetrahydro-,
ethanedioate (1:1) (9CI) (CA INDEX NAME)

CH 1

CRN 25150-82-7
CMF C18 H25 Cl N2



L13 ANSWER 60 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



CH 2

CRN 144-62-7
CMF C2 H2 O4



L13 ANSWER 60 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

CH 2

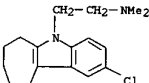
CRN 144-62-7
CMF C2 H2 O4



RN 41734-63-8 CAPLUS
CN Cyclohept[b]indole-5(6H)-ethanamine, 2-chloro-7,8,9,10-tetrahydro-N,N-
dimethyl-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CH 1

CRN 48183-69-3
CMF C17 H23 Cl N2



CH 2

CRN 144-62-7
CMF C2 H2 O4



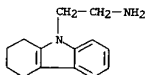
RN 41734-65-0 CAPLUS
CN Cyclohept[b]indole-5(6H)-ethanamine,
N,N-diethyl-7,8,9,10-tetrahydro-2-
methoxy-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CH 1

CRN 48198-06-7
CMF C20 H30 N2 O

L13 ANSWER 61 OF 99 CAPLUS COPYRIGHT 2002 ACS

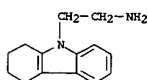
ACCESSION NUMBER: 1973:71829 CAPLUS
DOCUMENT NUMBER: 78:71829
TITLE: Cycloparaffins condensed with heterocyclic rings.
XIX. Synthesis of
1-(omega-guanidinealkyl)indole
derivatives
AUTHOR(S): Hahn, Witold E.; Bartnik, Romuald; Kryczka,
Boguslaw
CORPORATE SOURCE: Inst. Chem., Univ. Lodz, Lodz, Pol.
SOURCE: Soc. Sci. Lodz., Acta Chim. (1972), 17, 175-80
CODEN: SLACBC
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The title compd. (I) and the carbazole derivs. [II, R = C(:NH)NH2, n =
2,3] were prepd. by condensation of the corresponding indole- and
carbazolealkylamine with 5-methylisothiourea sulfate (III). Thus,
0.02 mole II (R = H, n = 2) and 0.03 mole III in 50% EtOH was heated 3 hr
on a water bath to give 75% II.1/2H2SO4 [R = C(:NH)NH2, n = 2]. Similarly
prepd. were I and II [R = C(:NH)NH2, n = 2, HCl salt; n = 3, 1/2H2SO4
salt].
IT 23709-72-0P 39595-36-3P 40163-79-9P
40481-06-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 23709-72-0 CAPLUS
CN 9H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro- (9CI) (CA INDEX NAME)



RN 39595-36-3 CAPLUS
CN 9H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-, sulfate (2:1) (9CI)
(CA INDEX NAME)

CH 1

CRN 23709-72-0
CMF C14 H18 N2

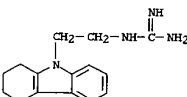


CM 2
CRN 7664-93-9
CMF H2 O4 S



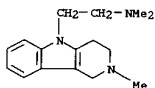
RN 40163-79-9 CAPLUS
CN Guanidine, [2-(1,2,3,4-tetrahydro-9H-carbazol-9-yl)ethyl]-, sulfate (2:1)
(9CI) (CA INDEX NAME)

CM 1
CRN 46972-37-6
CMF C15 H20 N4



CM 2
CRN 7664-93-9
CMF H2 O4 S

L13 ANSWER 62 OF 99 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1973:85 CAPLUS
DOCUMENT NUMBER: 78:85
TITLE: Relation between chemical structure and pharmacological activity of carboline derivatives
AUTHOR(S): Barkov, N. K.; Kucherova, N. F.
CORPORATE SOURCE: Nauchno-Issled. Inst. Farmakol., Moscow, USSR
SOURCE: Khim.-Farm. Zh. (1972), 6(6), 23-7
CODEN: KHFZAN
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Of 21 carboline derivs. tested, 2,3,4,4a,5,9b-hexahydro-2,8-dimethyl-1H-pyrido[4,3-b]indole-2HCl (1) [33162-17-3] had the greatest antiaggression activity, surpassing that of aminazine [50-53-3], when tested on rats and mice. Most of the derivs. had appreciable antiaggression activity, and to a lesser extent were able to inhibit motion by the animals. gamma-Carboline derivs. were generally more effective than beta-carboline derivs. Et 2,3,4,5-tetrahydro-2-methyl-1H-pyrido[4,3-b]indole-8-carboxylate-HCl [36911-68-9] had significant analgesic activity.
IT 40431-49-0 40431-50-3 40431-51-4
RL: BIOL (Biological study)
(tranquillizer)
RN 40431-49-0 CAPLUS
CN 5H-Pyrido[4,3-b]indole-5-ethanamine, 1,2,3,4-tetrahydro-N,N,2-trimethyl-, dihydrochloride (9CI) (CA INDEX NAME)

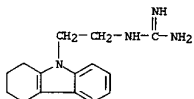


● 2 HCl

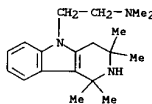
RN 40431-50-3 CAPLUS
CN 5H-Pyrido[4,3-b]indole-5-ethanamine, 1,2,3,4-tetrahydro-N,N,1,1,3,3-hexamethyl-, dihydrochloride (9CI) (CA INDEX NAME)



RN 40481-06-9 CAPLUS
CN Guanidine, [2-(1,2,3,4-tetrahydro-9H-carbazol-9-yl)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)

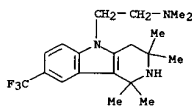


● HCl



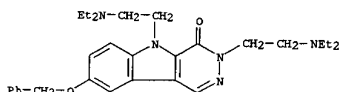
● 2 HCl

RN 40431-51-4 CAPLUS
CN 5H-Pyrido[4,3-b]indole-5-ethanamine, 1,2,3,4-tetrahydro-N,N,1,1,3,3-hexamethyl-8-(trifluoromethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



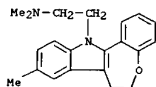
● 2 HCl

L13 ANSWER 63 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1972:501501 CAPLUS
 DOCUMENT NUMBER: 77:101501
 TITLE: 2-Carbethoxyindole derivatives. II. Synthesis of
 8-(benzyloxy)-3(H)-pyridazino[4,5-b]indol-4-one derivatives
 AUTHOR(S): Nantka-Namirski, Pawel; Ozdowska, Zofia
 CORPORATE SOURCE: Inst. Chem. Org., Pol. Akad. Nauk, Warsaw, Pol.
 SOURCE: Acta Pol. Pharm. (1972), 29(1), 13-16
 CODEN: APFHAX
 DOCUMENT TYPE: Journal
 LANGUAGE: Polish
 G1 For diagram(s), see printed CA Issue.
 AB I (R = H) was N-Acylated and alkylated by refluxing with RCl in DMF or dioxane and Na2CO3. I (R = H) 2Na salt was the reaction intermediate. I (R = Bz; PhCH2; PhCH2CH2; Et2NCH2CH2 and its dihydrochloride were prepd. and showed antiinflammatory and antihistamine activity.
 IT 37175-63-6P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 37175-63-6 CAPLUS
 CN 4H-Pyridazino[4,5-b]indol-4-one, 3,5-bis[2-(diethylamino)ethyl]-3,5-dihydro-8-(phenylmethoxy)- (9CI) (CA INDEX NAME)

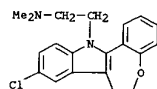


L13 ANSWER 64 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

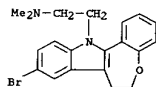
RN 37683-56-0 CAPLUS
 CN 12H-[1]Benzoxepino[5,4-b]indole-12-ethanamine, 6,7-dihydro-N,N,9-trimethyl- (9CI) (CA INDEX NAME)



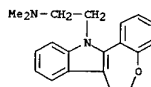
RN 37683-57-1 CAPLUS
 CN 12H-[1]Benzoxepino[5,4-b]indole-12-ethanamine, 9-chloro-6,7-dihydro-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 37683-58-2 CAPLUS
 CN 12H-[1]Benzoxepino[5,4-b]indole-12-ethanamine, 9-bromo-6,7-dihydro-N,N-dimethyl- (9CI) (CA INDEX NAME)



L13 ANSWER 64 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1972:469985 CAPLUS
 DOCUMENT NUMBER: 77:69985
 TITLE: Pharmacological activity spectra of some azepino- and benzoxepinoindole derivatives
 AUTHOR(S): Artamenko, G. N.; Lakota, G. N.; Fedorova, I. B.; Kucherova, N. F.; Aksanova, L. A.; Sharkova, N. M.;
 CORPORATE SOURCE: Sharkova, L. M. Lab. Psikhofarmakol., Inst. Farmakol., Moscow, USSR
 SOURCE: Farmakol. Toksikol. (Moscow) (1972), 35(3), 274-80
 CODEN: FATOAO
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 AB Pharmacol. activities of 16 1,2,3,4,5,6-hexahydroazepino[4,5-b]indole derivs. (I), 12H, 6,7-dihydrobenz[2',3']oxepino[4,5-b]indole derivs. (II) and 12H,6,7,7a,12a-tetrahydrobenz[2',3']oxepino[4,5-b]indole derivs. (III) were compared with those of imipramine [50-49-7], amitriptyline [50-48-6] noveril [315-80-0], carbidin [33162-17-3]. The hexahydroazepinoindoles had pharmacol. activity similar to that of amitriptyline, whereas dihydrobenzoxepinoindoles had both antidepressant and neuroleptic properties, resembling carbidin in pharmacol. activity. A comparison of the chem. structure of the substances with their pharmacol. activity indicated that the dimethylaminoethyl derivs. of dihydrobenzoxepinoindole were more potent than the dimethylaminopropyl derivs. Introduction of a Me group or of Br into the para position with respect to indole N of the azepino and dihydrobenzoxepinoindole derivs. increased the ability of the compds. to potentiate the action of phenamine [300-62-9], whereas the introduction of Cl in the same position decreased this effect.
 IT 37683-55-9 37683-56-0 37683-57-1 37683-58-2
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pharmacology of)
 RN 37683-55-9 CAPLUS
 CN 12H-[1]Benzoxepino[5,4-b]indole-12-ethanamine, 6,7-dihydro-N,N-dimethyl- (9CI) (CA INDEX NAME)



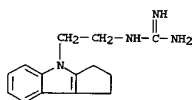
L13 ANSWER 65 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1972:448239 CAPLUS
 DOCUMENT NUMBER: 77:48239
 TITLE: 1-Alkylindole derivatives
 INVENTOR(S): Okamoto, Tadashi; Kobayashi, Tsuyoshi; Yamamoto, Hisao
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd.
 SOURCE: Jpn. Tokkyo Koho, 2 pp.
 CODEN: JAOXAD
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 47013662	B4	19720424	JP 1968-87470	19681128

AB For diagram(s), see printed CA Issue.
 GI 1-(2-Guanidinoethyl)-cyclopent[b]indole (I) sulfate, useful as a blood pressure depressant, was prepd. by treating 1-(2-aminoethyl)cyclopent[b]indole hydrochloride with S-methylisothiurea or NH2CN with refluxing.
 IT 36802-70-7P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 36802-70-7 CAPLUS
 CN Guanidine, [2-(2,3-dihydrocyclopent[b]indol-4(1H)-yl)ethyl]-, sulfate (9CI) (CA INDEX NAME)

CH 1

CRN 46884-85-9
 CMF C14 H18 N4



CH 2

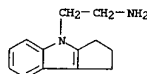
CRN 7664-93-9
 CMF H2 O4 S



L13 ANSWER 66 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1972:448236 CAPLUS
 DOCUMENT NUMBER: 77:48236
 TITLE: Indole-1-alkylamine derivatives
 INVENTOR(S): Okamoto, Tadashi; Kobayashi, Tsuyoshi; Yamamoto, Hisao
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd.
 SOURCE: Jpn. Tokkyo Koho, 2 pp.
 CODEN: JAOXAD
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

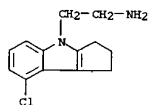
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 47013661	B4	19720424	JP 1968-87469	19681128

GI For diagram(s), see printed CA Issue.
 AB The title compds. (I), acting on the central nervous system, were prepd. by reducing the corresponding indole-1-fatty acid amide. E.g., 3.5 g 1-cyclopent[b]indolylacetamide in THF was refluxed with LiAlH₄ and treated with HCl to give 3 g I.HCl (X = H). Similarly prepd. was I (X = Cl).
 IT 36956-42-5P 36956-43-6P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 36956-42-5 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 2,3-dihydro-, monohydrochloride (9CI)
 (CA INDEX NAME)

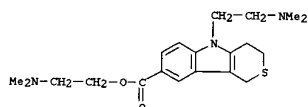


● HCl

RN 36956-43-6 CAPLUS
 CN Cyclopent[b]indole-4(1H)-ethanamine, 8-chloro-2,3-dihydro- (9CI) (CA INDEX NAME)



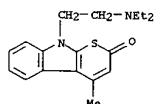
L13 ANSWER 67 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1972:94533 CAPLUS
 DOCUMENT NUMBER: 76:94533
 TITLE: Influence of a number of indole derivatives on monoamine oxidase activity
 AUTHOR(S): Pidevich, I. N.; Krupinska, I.; Griglevskii, R.; Zhmuda, A.
 CORPORATE SOURCE: Lab. Farmakol. Serdechno-Sosudistoi Sist., Inst. Farmakol., Moscow, USSR
 SOURCE: Farmakol. Toksikol. (Moscow) (1971), 34(6), 663-6
 CODEN: FATOAO
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 AB Dimethylaminoethyl 2,3-dimethylindole-5-carboxylate (I) [34233-73-3] was the strongest inhibitor of 6 indole derivs. tested against rat liver monoamine oxidase in vitro. Introduction of a benzyl or dimethylaminoethyl substituent on the indole nitrogen atom or conversion of the indole carboxylic acid moiety to a thiopyranoindole or gamma.-carboline nucleus decreased the ability of the compd. to inhibit tyramine [51-67-2] deamination.
 IT 34320-59-7
 RL: BIOL (Biological study) (monoamine oxidase inhibition by)
 RN 34320-59-7 CAPLUS
 CN Thiopyrano[4,3-b]indole-8-carboxylic acid, 5-[2-(dimethylamino)ethyl]-1,3,4,5-tetrahydro-, 2-(dimethylamino)ethyl ester (8CI, 9CI) (CA INDEX NAME)



L13 ANSWER 68 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1972:46183 CAPLUS
 DOCUMENT NUMBER: 76:46183
 TITLE: Substituted thiopyrano[2,3-b]indoles
 INVENTOR(S): Bourdais, Jacques
 PATENT ASSIGNEE(S): Agence Nationale de valorisation de la Recherche
 SOURCE: Fr., 16 pp.
 CODEN: PROGAK
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

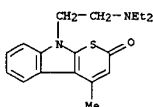
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2054462		19710528	FR	19690707

GI For diagram(s), see printed CA Issue.
 AB Twenty title compds. [I-III; R=Me, Ph, or CO₂Et; R¹=H, Me; R²=Me, Ph, CO₂Et, or CO₂H; R³=H, Me, (CH₂)₂OH, (CH₂)₂NEt₂, 2-(4-benzylpiperazinyl)ethyl, or p-chlorobenzyl] were prepd. and had possible use as photog. emulsifiers or intermediates for org. synthesis. Thus, 2-indolinethione and 2,4-pentanedione were mixed in EtOH soln. contg. HCl to give II (R, R²=Me; R¹, R³=H), which was treated with K₂CO₃ to give I (R, R²=Me; R¹=H).
 IT 35156-02-6P 35156-05-9P
 RL: SEN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 35156-02-6 CAPLUS
 CN Thiopyrano[2,3-b]indol-2(9H)-one, 9-[2-(diethylamino)ethyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 35156-05-9 CAPLUS
 CN Thiopyrano[2,3-b]indol-2(9H)-one, 9-[2-(diethylamino)ethyl]-4-methyl- monohydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 68 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



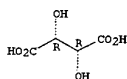
● HCl

L13 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1972:42382 CAPLUS
 DOCUMENT NUMBER: 76:42382
 TITLE: Effects of dibutyl-3',5'-cyclic adenosine monophosphate, phosphodiesterase inhibitors, and prostaglandin E₁ on compound 48/80-induced histamine release from rat peritoneal mast cells in vitro
 AUTHOR(S): Loeffler, Larry J.; Lovenberg, Walter; Sjoerdsma, Albert
 CORPORATE SOURCE: Natl. Heart Lung Inst., Natl. Inst. Health, Bethesda, Md., USA
 SOURCE: Biochem. Pharmacol. (1971), 20(9), 2287-97
 CODEN: BCPCA6
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Compd. 48/80-induced histamine [56-92-8] release from rat peritoneal mast cell in vitro was inhibited by high concn. of N₆,O₂'-dibutyl 3',5'-cyclic AMP (I) [362-74-3], prostaglandin E₁ (II) [745-65-3], theophylline (III) [58-55-9], reserpine [50-55-5], diethylaminoethylreserpine [1111-44-0], and perphenazine [58-39-9]. Several other adenine nucleotides tested were ineffective at concns. comparable to the concn. of I. Thus, cyclic AMP [60-92-4] may be involved in the histamine release process of the mast cell.
 IT 1111-44-0
 RL: PRP (Properties) (histamine release from mast cells by Compd. 48/80 in relation to)
 RN 1111-44-0 CAPLUS
 CN Yohimban-16-carboxylic acid, 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester, (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)-, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 87-69-4
 CMF C4 H6 O6

Absolute stereochemistry.

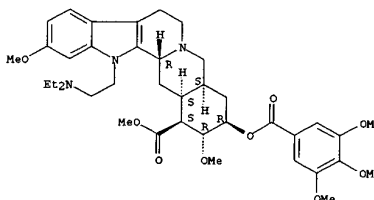


CM 2

CRN 53-18-9

L13 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CMF C39 H53 N3 O9

Absolute stereochemistry.



L13 ANSWER 70 OF 99 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1972:34140 CAPLUS

DOCUMENT NUMBER: 76:34140

TITLE: Indole derivatives. XXXVI. Synthesis and pharmacological study of some benzoxepinoindole derivatives

AUTHOR(S): Aksanova, L. A.; Sharkova, L. M.; Kucherova, N. F.

CORPORATE SOURCE: Artemenko, G. N.; Fedorova, I. B. Nauchno-Issled. Inst. Farmakol., Moscow, USSR

SOURCE: Khim.-Farm. Zh. (1971), 5(11), 3-5

CODEN: KHFZAN

DOCUMENT TYPE: Journal

LANGUAGE: Russian

GI For diagram(s), see printed CA issue.

AB I (R1=H, Me, Cl, Br; R2=H) with NaH in DMF followed by treatment with Me2N(CH2)2Cl or Me2N(CH2)3Cl gave 40-90% I (R2=(CH2)3NMe2, (CH2)2NMe2).

Zn-HCl redn. of I (R1=H, Me; R2=H) in the presence of HgCl2 gave 43-94% of the resp. II. ClCH2CH2COCl reacted with II (R=H) to give 70% II (R=CO(CH2)2Cl), which treated with an amine gave 68-85% II (R=CO(CH2)2NMe2, piperidino-ethylcarbonyl). I and II have

psychosedative and antidepressant activity.

IT 35073-69-9P 35073-77-9P 35073-79-1P

35073-81-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

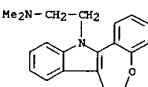
(prepn. of)

RN 35073-69-9 CAPLUS

CN 12H-[1]Benzoxepino[5,4-b]indole-12-ethanamine,

6,7-dihydro-N,N-dimethyl

monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 35073-77-9 CAPLUS

CN 12H-[1]Benzoxepino[5,4-b]indole-12-ethanamine,

6,7-dihydro-N,N,9-trimethyl-

monohydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 71 OF 99 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1972:21264 CAPLUS

DOCUMENT NUMBER: 76:21264

TITLE: Effects of reserpine and its derivatives on blood pressure and tissue levels of amines

AUTHOR(S): Fujiwara, Motohatsu; Osumi, Seimei; Tagashira, Ei-jiro;

Kurahashi, Kazuyoshi; Kajiwara, Hiroshi; Osumi, Kiyoshi; Mori, Jyo

Med. Sch., Kyoto Univ., Kyoto, Japan

Nippon Yakubutsugaku Zasshi (1970), 66(5), 564-85

CODEN: NIYZAM

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

AB Reserpine (I) [50-55-5], 10-methoxydeserpine (II) [865-04-3],

N-diethylaminoethylreserpine (III) [53-18-9], and

dimethylaminoethyl reserpilate (IV) [5585-67-1] lowered blood

pressure gradually in chloralosed cats; the effect of I was >10-fold stronger

than those of the other 3 drugs. I, II, and III inhibited persistently

the pressor reflexes to vagal stimulation and stoppage of respiration,

and transiently inhibited the pressor reflex to bilateral carotid

occlusion;

IV had no effect on these pressor reflexes. Cardiac and cerebral

noradrenaline [51-41-2] and serotonin [50-67-9] levels in rats were

decreased markedly by I, slightly decreased by II and III, and only

very slightly decreased by large IV doses. I decreased or abolished

catechol amine fluorescence in nerve cells, nerve endings, and vesicles,

while III and II decreased catechol amine fluorescence markedly only in

vesicles.

IT 53-18-9

RL: BIOL (Biological study)

(blood pressure and monoamine metabolism response to)

RN 53-18-9 CAPLUS

CN Yohimban-16-carboxylic acid,

1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-

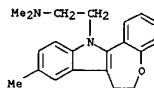
[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester,

(3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (9CI) (CA INDEX

NAME)

Absolute stereochemistry.

L13 ANSWER 70 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



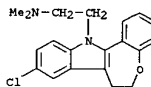
● HCl

RN 35073-79-1 CAPLUS

CN 12H-[1]Benzoxepino[5,4-b]indole-12-ethanamine,

9-chloro-6,7-dihydro-N,N-

dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



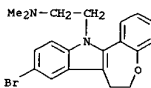
● HCl

RN 35073-81-5 CAPLUS

CN 12H-[1]Benzoxepino[5,4-b]indole-12-ethanamine,

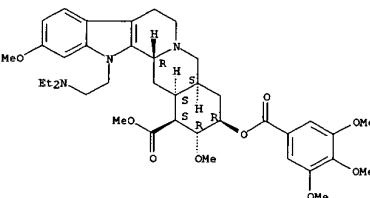
9-bromo-6,7-dihydro-N,N-

dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

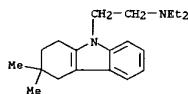


● HCl

L13 ANSWER 71 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



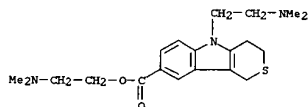
L13 ANSWER 72 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1972:14239 CAPLUS
 DOCUMENT NUMBER: 76:14239
 TITLE: Spirans. XVIII. The gem-Dialkyl and spirotetrahydrocarbazoles
 AUTHOR(S): Rice, Leonard M.; Sheth, Bhagvandas S.; Wheeler, James W.
 CORPORATE SOURCE: Coll. Pharm., Howard Univ., Washington, D. C., USA
 SOURCE: J. Heterocycl. Chem. (1971), 8(5), 751-4
 CODEN: JHICAD
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB The reactions of 4,4-dialkylcyclohexanones, spiro[4.5]decan-8-one and various spiro[5.5]undecanones with phenylhydrazines to produce corresponding 3,3-dialkyltetrahydro and spiro(cycloalkyl 1,n')-1',2',3',4'-tetrahydrocarbazoles [n' = 1,2, or 3 (I, n = 0 or 1)] by the Fischer indole synthesis were examd. Structural assignment of the one isomeric product derived from spiro[5.5] undecan-2-one was obtained on the basis of PMR spectra.
 IT 34574-58-8P 34574-59-9P 34574-65-7P
 34574-66-8P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 34574-58-8 CAPLUS
 CN 9H-Carbazole-9-ethanamine, N,N-diethyl-1,2,3,4-tetrahydro-3,3-dimethyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)
 CM 1
 CRN 34574-59-9
 CHF C20 H30 N2



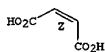
CM 2
 CRN 110-16-7
 CHF C4 H4 O4

Double bond geometry as shown.

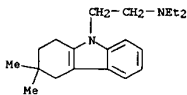
L13 ANSWER 73 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1971:517037 CAPLUS
 DOCUMENT NUMBER: 75:117037
 TITLE: Effect of serotonin antagonists on D, M, and T receptors
 AUTHOR(S): Zakusov, V. V.; Pidevich, I. N.
 CORPORATE SOURCE: Moscow, USSR
 SOURCE: Biogheny Aminy Klin., Tr. Vses. Nauch. Konf. (1970), Meeting Date 1967, 250-6. Editor(s): V. "Meditsina": Moscow, USSR.
 CODEN: 23LZAD
 LANGUAGE: Russian
 AB A new type of serotonin-reactive structures and serotonin antagonists was found. Myotropic effects (D-receptors) were measured on rat uterus and stomach, the effect on ganglia (M-receptors) on cat nictitating membrane, and the effect on T-receptors (new class) on the heart-lung reflectogenic zone of anesthetized cat. In the latter, serotonin accelerates breathing and heart beat. Derivs. of thiopyranoindole, tetrahydrocarboline, and 2,3-dialkylindole, contg. a diethylaminomethyl group and an unsatd. H at the indole N, antagonized the effect of serotonin on T-receptors. Tipindole, a representative compd., slightly antagonized the effect of serotonin on D- and M-receptors and strongly that on T-receptors.
 IT 34320-59-7
 RL: BIOL (Biological study) (serotonin receptors response to)
 RN 34320-59-7 CAPLUS
 CN Thiopyrano[4,3-b]indole-8-carboxylic acid, 5-[2-(dimethylamino)ethyl]-1,3,4,5-tetrahydro-, 2-(dimethylamino)ethyl ester (8CI, 9CI) (CA INDEX NAME)



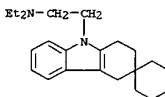
L13 ANSWER 72 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 34574-59-9 CAPLUS
 CN 9H-Carbazole-9-ethanamine, N,N-diethyl-1,2,3,4-tetrahydro-3,3-dimethyl-, (9CI) (CA INDEX NAME)

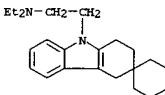


RN 34574-65-7 CAPLUS
 CN Spiro[3H-carbazole-3,1'-cyclohexane]-9(2H)-ethanamine, N,N-diethyl-1,4-dihydro-, monohydrochloride (9CI) (CA INDEX NAME)

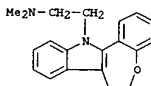


● HCl

RN 34574-66-8 CAPLUS
 CN Spiro[3H-carbazole-3,1'-cyclohexane]-9(2H)-ethanamine, N,N-diethyl-1,4-dihydro-, (9CI) (CA INDEX NAME)

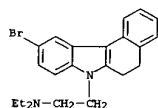


L13 ANSWER 74 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1971:435840 CAPLUS
 DOCUMENT NUMBER: 75:35840
 TITLE: Indole derivatives. XXXV. Synthesis of 12H-6,7-dihydrobenz[2',3']oxepino[4,5-b]indoles
 AUTHOR(S): Sharkova, L. M.; Aksanova, L. A.; Kucherova, N. F.
 CORPORATE SOURCE: USSR
 SOURCE: Khim. Geterotsikl. Soedin. (1971), 7(1), 65-7
 CODEN: KGSSAQ
 LANGUAGE: Russian
 GI For diagram(s), see printed CA Issue.
 AB Reaction of homochroman-5-one with p-tolylhydrazine-HCl in 15% HCl-EtOH gave 97% I (R = R1 = H). Similarly prepd. were I (R, and R1 given):
 Me, H; MeO, H; H, Me; H, PhCH2; EtOCO, PhCH2; EtOCO, H; Cl, H; Br, H; CF3 (on C8 or C10), CH2CH2NMe2; NO2, H; 8,9-benzo, H.
 IT 33308-43-9P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 33308-43-9 CAPLUS
 CN 6H-[1]Benzoxepino[5,4-b]indole, 12-[2-(dimethylamino)ethyl]-7,12-dihydro-8 (or 10)-(trifluoromethyl)-, monohydrochloride (8CI) (CA INDEX NAME)



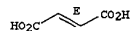
● HCl

L13 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1971:435588 CAPLUS
 DOCUMENT NUMBER: 75:35588
 TITLE: Synthetic trypanocides. 2. Substituted
 5,6-dihydro[c]benzocarbazoles
 AUTHOR(S): Albonico, Sem M.; Gallo Pecca, Jorge
 CORPORATE SOURCE: Sch. Pharm. Biochem., Univ. Buenos Aires, Buenos
 Aires, Argent.
 SOURCE: J. Med. Chem. (1971), 14(5), 448-9
 CODEN: JMCMAR
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB 7-(2-Dimethylaminoethyl)-8-chloro-5,6-dihydro-7H-benzo[c]carbazole
 (I) and
 7-(2-piperidinoethyl)-10-methoxy-5,6-dihydro-7H-benzo[c]carbazole
 (II),
 the most active compds. of 32 substituted
 5,6-dihydro[c]benzocarbazoles
 and substituted 5,6-dihydro[c]benzocarbazole fumarates, were prepd.
 by the
 Fisher indole synthesis and by a modified procedure (starting with
 substituted phenylhydrazines and .beta.-tetralones). I and II, each
 at
 1000 mg/kg, orally or i.p., caused no deaths in mice. Furthermore,
 it was
 established that in compds. contg. an N-substituted indole nucleus,
 chloro
 and methoxy substituents in the benzonoid portion of the aromatic
 ring
 provide higher activities against Trypanosoma cruzi.
 IT 32533-83-8P 32533-84-9P 32533-85-0P
 32533-86-1P 32533-87-2P 32533-88-3P
 32533-89-4P 32533-90-7P 32534-12-6P
 32534-13-7P 32534-14-8P 32534-15-9P
 32534-16-0P 32534-18-2P 32534-20-6P
 32557-41-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 32533-83-8 CAPLUS
 CN 5H-Benzo[c]carbazole, 7-[2-(diethylamino)ethyl]-6,7-dihydro-,
 fumarate (1:1) (8CI) (CA INDEX NAME)
 CM 1
 CRN 31792-76-4
 CMF C22 H26 N2



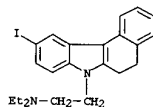
CM 2
 CRN 110-17-8
 CMF C4 H4 O4

Double bond geometry as shown.



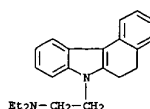
RN 32533-86-1 CAPLUS
 CN 5H-Benzo[c]carbazole, 7-[2-(diethylamino)ethyl]-6,7-dihydro-10-iodo-,
 fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1
 CRN 47433-15-8
 CMF C22 H25 I N2



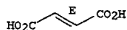
CM 2

L13 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



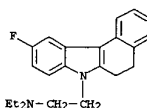
CM 2
 CRN 110-17-8
 CMF C4 H4 O4

Double bond geometry as shown.



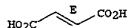
RN 32533-84-9 CAPLUS
 CN 5H-Benzo[c]carbazole, 7-[2-(diethylamino)ethyl]-10-fluoro-6,7-dihydro-,
 fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1
 CRN 47433-14-7
 CMF C22 H25 F N2



CM 2
 CRN 110-17-8
 CMF C4 H4 O4

Double bond geometry as shown.

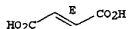


L13 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 32533-85-0 CAPLUS
 CN 5H-Benzo[c]carbazole, 10-bromo-7-[2-(diethylamino)ethyl]-6,7-dihydro-,
 fumarate (1:1) (8CI) (CA INDEX NAME)

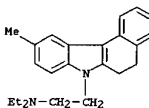
CM 1
 CRN 47433-11-4
 CMF C22 H25 Br N2

Double bond geometry as shown.



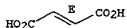
RN 32533-87-2 CAPLUS
 CN 5H-Benzo[c]carbazole, 7-[2-(diethylamino)ethyl]-6,7-dihydro-10-methyl-,
 fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1
 CRN 47433-12-5
 CMF C23 H28 N2



CM 2
 CRN 110-17-8
 CMF C4 H4 O4

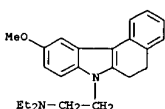
Double bond geometry as shown.



RN 32533-88-3 CAPLUS
 CN 5H-Benzo[c]carbazole, 7-[2-(diethylamino)ethyl]-6,7-dihydro-10-methoxy-,
 fumarate (1:1) (8CI) (CA INDEX NAME)

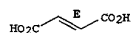
CM 1
 CRN 47480-11-5
 CMF C23 H28 N2 O

L13 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



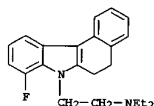
CM 2
CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.



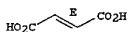
RN 32533-89-4 CAPLUS
CN 5H-Benzo[c]carbazole, 7-[2-(diethylamino)ethyl]-8-fluoro-6,7-dihydro-, fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1
CRN 47433-09-0
CMF C22 H25 F N2



CM 2
CRN 110-17-8
CMF C4 H4 O4

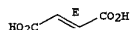
Double bond geometry as shown.



L13 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

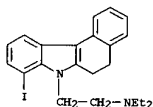
CMF C4 H4 O4

Double bond geometry as shown.



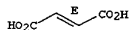
RN 32534-13-7 CAPLUS
CN 5H-Benzo[c]carbazole, 7-[2-(diethylamino)ethyl]-6,7-dihydro-8-iodo-, fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1
CRN 47433-10-3
CMF C22 H25 I N2



CM 2
CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.



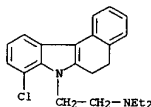
RN 32534-14-8 CAPLUS
CN 5H-Benzo[c]carbazole, 7-[2-(diethylamino)ethyl]-6,7-dihydro-8-methyl-, fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1
CRN 47433-07-8
CMF C23 H28 N2

L13 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

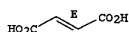
RN 32533-90-7 CAPLUS
CN 5H-Benzo[c]carbazole, 8-chloro-7-[2-(diethylamino)ethyl]-6,7-dihydro-, fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1
CRN 47433-08-9
CMF C22 H25 Cl N2



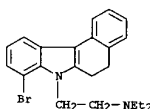
CM 2
CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.



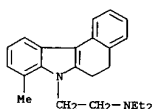
RN 32534-12-6 CAPLUS
CN 5H-Benzo[c]carbazole, 8-bromo-7-[2-(diethylamino)ethyl]-6,7-dihydro-, fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1
CRN 47433-06-7
CMF C22 H25 Br N2



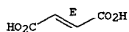
CM 2
CRN 110-17-8

L13 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



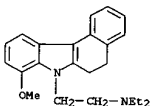
CM 2
CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.



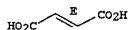
RN 32534-15-9 CAPLUS
CN 5H-Benzo[c]carbazole, 7-[2-(diethylamino)ethyl]-6,7-dihydro-8-methoxy-, fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1
CRN 47480-09-1
CMF C23 H28 N2 O



CM 2
CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.

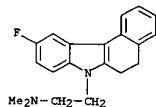


L13 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 32534-16-0 CAPLUS
CN 5H-Benzo[c]carbazole,
7-[2-(dimethylamino)ethyl]-10-fluoro-6,7-dihydro-,
fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1

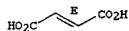
CRN 47271-03-4
CMF C20 H21 F N2



CM 2

CRN 110-17-8
CMF C4 H4 O4

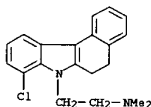
Double bond geometry as shown.



RN 32534-18-2 CAPLUS
CN 5H-Benzo[c]carbazole,
8-chloro-7-[2-(dimethylamino)ethyl]-6,7-dihydro-,
fumarate (1:1) (8CI) (CA INDEX NAME)

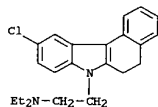
CM 1

CRN 31792-72-0
CMF C20 H21 Cl N2



CM 2

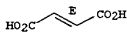
L13 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



CM 2

CRN 110-17-8
CMF C4 H4 O4

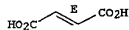
Double bond geometry as shown.



L13 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

CRN 110-17-8
CMF C4 H4 O4

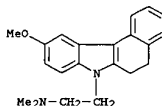
Double bond geometry as shown.



RN 32534-20-6 CAPLUS
CN 5H-Benzo[c]carbazole,
7-[2-(dimethylamino)ethyl]-6,7-dihydro-10-methoxy-,
fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1

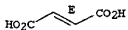
CRN 47334-74-7
CMF C21 H24 N2 O



CM 2

CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.



RN 32557-41-8 CAPLUS
CN 5H-Benzo[c]carbazole,
10-chloro-7-[2-(diethylamino)ethyl]-6,7-dihydro-,
fumarate (1:1) (8CI) (CA INDEX NAME)

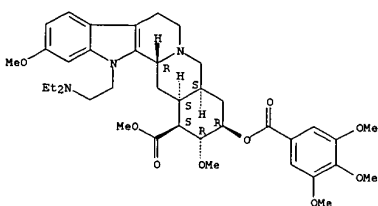
CM 1

CRN 47433-13-6
CMF C22 H25 Cl N2

L13 ANSWER 76 OF 99 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1971:433497 CAPLUS
DOCUMENT NUMBER: 75:33497
TITLE: Hypotensive effect of 1-[2-(diethylamino)ethyl]reserpine (bisetaserpine)
AUTHOR(S): Ueda, Motobiko; Doteuchi, Masami; Matsuda, Saburo; Kawakami, Masaru; Tanaka, Hideo; Takeda, Hiroshi
CORPORATE SOURCE: Shionogi and Co. Ltd., Osaka, Japan
SOURCE: Nippon Yakurigaku Zasshi (1970), 66(2), 248-60
CODEN: NYKZAU
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
GI For diagram(s), see printed CA Issue.
AB The hypotensive effect of bisetaserpine (I) was compared with that of reserpine (II) and pyrogallol (III) in unanesthetized rabbits, while the effect of I on monoamine release from peripheral organs was compared with that of II, III, and 10-methoxydeserpidine in rats. I.v. I doses >5 mg/kg had hypotensive effects. I, II, and III produced no abnormal electrocardiogram patterns and had a similar potency with respect to miosis. The potency of I in inducing a hypotensive effect, a neg. chronotropic effect, and a decrease of rectal temp. was about 1/10th of the potency of III and <1/10th of the potency of II. I (25 mg/kg s.c.) caused a complete disappearance of catechol amine fluorescence in the duodenum and a partial disappearance of catechol amine fluorescence in the seminal vesicles and vas deferens; serotonin distribution was not affected in these organs. The hypotensive mechanism of I appears to be similar to that of III.
IT 53-18-9
RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (hypotensive activity of)
RN 53-18-9 CAPLUS
CN Yohimban-16-carboxylic acid, 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester, (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (9CI) (CA INDEX NAME)

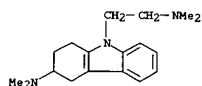
Absolute stereochemistry.



L13 ANSWER 77 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1971:405697 CAPLUS
 DOCUMENT NUMBER: 75:5697
 TITLE: Tetrahydrocarbazole derivatives
 PATENT ASSIGNEE(S): Sterling Drug Inc.
 SOURCE: Brit., 18 pp.
 CODEN: BRXGAA
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

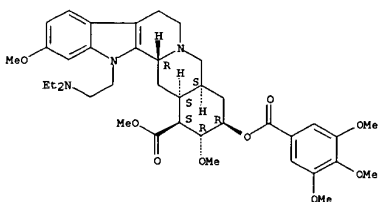
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1225664	A	19710317	GB 1968-1225664	19680410
US 3642816	A	19720215	US 1967-659606	19670810
JP 50009797	B4	19750416	JP 1968-26859	19680423
CH 507945	A	19710531	CH 1968-507945	19680424
CH 517741	A	19720115	CH 1968-517741	19680424
NL 6806044	A	19690212	NL 1968-6044	19680429
FR 7693	M	19700223	FR 1968-7693	19680429
BE 714439	A	19681030	BE 1968-714439	19680430
SE 355018	B	19730402	SE 1968-5885	19680430
JP 52035669	B4	19770910	JP 1974-98822	19740828

PRIORITY APPLN. INFO.: US 1967-659606 19670810
 AB Title compounds were prepd. Thus, a mixt. of 6.7 g 3-(dimethylamino)-1,2,3,4-tetrahydrocarbazole and 1.35 g NaH in 75 ml DMF was heated on a steam bath, and 5 g p-ClC6H4CH2Cl in 10 ml DMF added dropwise to give 4.9 g 9-(p-chlorobenzyl)-3-(dimethylamino)-1,2,3,4-tetrahydrocarbazole.
 IT 32212-05-8P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 32212-05-8 CAPLUS
 CN 9H-Carbazole-9-ethanamine, 3-(dimethylamino)-1,2,3,4-tetrahydro-N,N-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



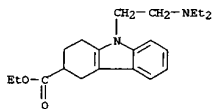
●2 HCl

L13 ANSWER 78 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1971:97715 CAPLUS
 DOCUMENT NUMBER: 74:97715
 TITLE: Effect of amines on experimental stomach ulcer by stress
 AUTHOR(S): Fujiwara, Motohatsu; Mori, Jo
 CORPORATE SOURCE: Sch. Med., Univ. Kyoto, Kyoto, Japan
 SOURCE: Saishin Igaku (1970), 25(10), 2058-67
 CODEN: SAIGAK
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese
 AB Male mature rats were subjected to cold stress (23.degree. bath, 20 hr), and the gastric mucosa was examd. histol. The i.p. injection of reserpine (2-5 mg/kg) accelerated cold-stress ulcer. Pretreatment with a smaller amt. of reserpine (0.5-2 mg) at 5 hr before cold-stress more greatly accelerated ulcer formation. Ulceration could also be induced by preinjection of tetrabenazine or to a lesser extent, by histaserpine. Pretreatment with the monoamine oxidase inhibitors (iproniazid or nialamide) considerably protected the animals from cold-stress ulcer. The simultaneous administration of 3,4-dihydroxyphenylalanine or 5-hydroxytryptamine increased the protecting effect of the monoamine oxidase inhibitor. The results are discussed in assocn. with the cerebral (autonomic nervous system) catechol amine concn.
 IT 53-18-9
 RL: BIOL (Biological study) (ulcers from)
 RN 53-18-9 CAPLUS
 CN Yohimban-16-carboxylic acid, 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester, (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



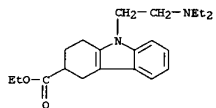
L13 ANSWER 79 OF 99 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1970:100424 CAPLUS
DOCUMENT NUMBER: 72:100424
TITLE: 3-Substituted 1,2,3,4-tetrahydrocarbazoles
AUTHOR(S): Rice, Leonard M.; Scott, Kenneth Richard
CORPORATE SOURCE: Coll. of Pharm., Howard Univ., Washington, D. C., USA
SOURCE: J. Med. Chem. (1970), 13(2), 308-11
CODEN: JMCMAR
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA issue.
AB 4-Carboxycyclohexanone is treated with PhNHNH2 to give I. II [R = CONEt2, CH2NEt2, and CH2OH; R1 = Me or .omega.-(dialkylamino)alkyl] are prepd. from I by known methods.
IT 26072-06-0P 26072-07-1P 26072-08-2P
26196-51-0P 29145-66-2P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
RN 26072-06-0 CAPLUS
CN Carbazole-3-carboxylic acid, 9-[2-(diethylamino)ethyl]-1,2,3,4-tetrahydro-, ethyl ester (8CI) (CA INDEX NAME)



RN 26072-07-1 CAPLUS
CN Carbazole-3-carboxylic acid, 9-[2-(diethylamino)ethyl]-1,2,3,4-tetrahydro-, ethyl ester, monomethiodide (8CI) (CA INDEX NAME)

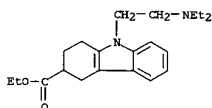
CH 1
CRN 26072-06-0
CMF C21 H30 N2 O2



L13 ANSWER 79 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

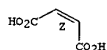
RN 29145-66-2 CAPLUS
CN Carbazole-3-carboxylic acid, 9-[2-(diethylamino)ethyl]-1,2,3,4-tetrahydro-, ethyl ester, maleate (1:1) (8CI) (CA INDEX NAME)

CH 1
CRN 26072-06-0
CMF C21 H30 N2 O2



CH 2
CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.

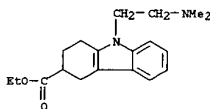


L13 ANSWER 79 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

CH 2
CRN 74-88-4
CMF C H3 I

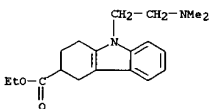
H3C-I

RN 26072-08-2 CAPLUS
CN Carbazole-3-carboxylic acid, 9-[2-(dimethylamino)ethyl]-1,2,3,4-tetrahydro-, ethyl ester (8CI) (CA INDEX NAME)



RN 26196-51-0 CAPLUS
CN Carbazole-3-carboxylic acid, 9-[2-(dimethylamino)ethyl]-1,2,3,4-tetrahydro-, ethyl ester, monomethiodide (8CI) (CA INDEX NAME)

CH 1
CRN 26072-08-2
CMF C19 H26 N2 O2



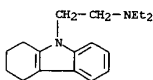
CH 2
CRN 74-88-4
CMF C H3 I

H3C-I

L13 ANSWER 80 OF 99 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1970:97655 CAPLUS
DOCUMENT NUMBER: 72:97655
TITLE: Synthetic trypanocides. I. Substituted 1,2,3,4-tetrahydrocarbazoles
AUTHOR(S): Pecca, Jorge G.; Albonico, Sem M.
CORPORATE SOURCE: Sch. Pharm. Biochem., Univ. Buenos Aires, Buenos Aires, Argent.
SOURCE: J. Med. Chem. (1970), 13(2), 327-8
CODEN: JMCMAR
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA issue.
AB Thirteen substituted 1,2,3,4-tetrahydrocarbazoles (I) were synthesized and tested for their in vitro trypanocidal activity against Trypanosoma cruzi in human blood. Prepd. were (R1, R1, m.p. and % yield given): H, H (II), 183-4.degree., 42; F, H (III), 168-70.degree., 36; Cl, H (IV), 182-4.degree., 38; Br, H, 184-5.degree., 37; I, H, 192-4.degree., 41; Me, H (V), 188-9.degree., 38; OMe, H (VI), 158-70.degree., 35; H, F, 165-7.degree., 30; H, Cl, 154-5.degree., 41; H, Br, 143-4.degree., 35; H, I, 153-4.degree., 41; H, Me, 163-5.degree., 30; and H, OMe (VII), 153-4, 35. II, III, IV, V, VI, and VII at min. concns. of 350, 350, 320, 350, 360, and 70 .mu.g./mg, resp., killed all trypanosomes within 16 hr.
IT 25150-74-7 25150-75-8 25150-76-9
25150-77-0 25150-31-6 25150-32-7
27539-17-9 27539-20-4 27539-21-5
27539-22-6 27539-29-3 27594-77-0
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study) (protozoocidal activity of)
RN 25150-74-7 CAPLUS
CN 9H-Carbazole-9-ethanamine, N,N-diethyl-1,2,3,4-tetrahydro-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CH 1
CRN 25150-80-5
CMF C18 H26 N2

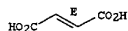


CH 2

L13 ANSWER 80 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

CRN 110-17-8
CMF C4 H4 O4

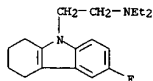
Double bond geometry as shown.



RN 25150-75-8 CAPLUS
CN 9H-Carbazole-9-ethanamine, N,N-diethyl-6-fluoro-1,2,3,4-tetrahydro-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

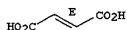
CRN 25150-81-6
CMF C18 H25 F N2



CM 2

CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.



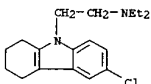
RN 25150-76-9 CAPLUS
CN 9H-Carbazole-9-ethanamine, N,N-diethyl-1,2,3,4-tetrahydro-6-methyl-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 25150-83-8
CMF C19 H28 N2

L13 ANSWER 80 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

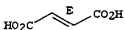
CRN 25150-82-7
CMF C18 H25 Cl N2



CM 2

CRN 110-17-8
CMF C4 H4 O4

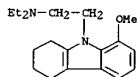
Double bond geometry as shown.



RN 25198-32-7 CAPLUS
CN 9H-Carbazole-9-ethanamine, N,N-diethyl-1,2,3,4-tetrahydro-8-methoxy-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

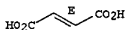
CRN 25150-85-0
CMF C19 H28 N2 O



CM 2

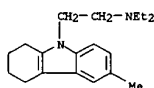
CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.



RN 27539-17-9 CAPLUS

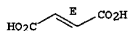
L13 ANSWER 80 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



CM 2

CRN 110-17-8
CMF C4 H4 O4

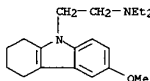
Double bond geometry as shown.



RN 25150-77-0 CAPLUS
CN 9H-Carbazole-9-ethanamine, N,N-diethyl-1,2,3,4-tetrahydro-6-methoxy-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

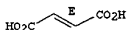
CRN 25150-84-9
CMF C19 H28 N2 O



CM 2

CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.



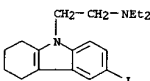
RN 25198-31-6 CAPLUS
CN 9H-Carbazole-9-ethanamine, 6-chloro-N,N-diethyl-1,2,3,4-tetrahydro-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

L13 ANSWER 80 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
CN Carbazole, 9-[2-(diethylamino)ethyl]-1,2,3,4-tetrahydro-6-iodo-, fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1

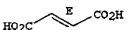
CRN 47144-01-4
CMF C18 H25 I N2



CM 2

CRN 110-17-8
CMF C4 H4 O4

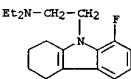
Double bond geometry as shown.



RN 27539-20-4 CAPLUS
CN Carbazole, 9-[2-(diethylamino)ethyl]-8-fluoro-1,2,3,4-tetrahydro-, fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1

CRN 47140-72-7
CMF C18 H25 F N2

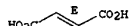


CM 2

CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.

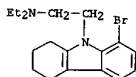
L13 ANSWER 80 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 27539-21-5 CAPLUS
CN Carbazole, 8-bromo-9-[2-(diethylamino)ethyl]-1,2,3,4-tetrahydro-,
fumarate
(1:1) (8CI) (CA INDEX NAME)

CM 1

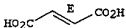
CRN 47140-69-2
CMF C18 H25 Br N2



CM 2

CRN 110-17-8
CMF C4 H4 O4

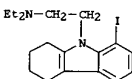
Double bond geometry as shown.



RN 27539-22-6 CAPLUS
CN Carbazole, 9-[2-(diethylamino)ethyl]-1,2,3,4-tetrahydro-8-iodo-,
fumarate
(1:1) (8CI) (CA INDEX NAME)

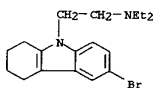
CM 1

CRN 47140-73-8
CMF C18 H25 I N2



CM 2

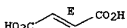
L13 ANSWER 80 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



CM 2

CRN 110-17-8
CMF C4 H4 O4

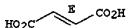
Double bond geometry as shown.



L13 ANSWER 80 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

CRN 110-17-8
CMF C4 H4 O4

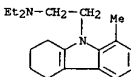
Double bond geometry as shown.



RN 27539-29-3 CAPLUS
CN Carbazole, 9-[2-(diethylamino)ethyl]-1,2,3,4-tetrahydro-8-methyl-,
fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1

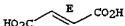
CRN 47140-70-5
CMF C19 H28 N2



CM 2

CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.



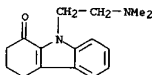
RN 27994-77-0 CAPLUS
CN Carbazole, 6-bromo-9-[2-(diethylamino)ethyl]-1,2,3,4-tetrahydro-,
fumarate
(1:1) (8CI) (CA INDEX NAME)

CM 1

CRN 47143-97-5
CMF C18 H25 Br N2

L13 ANSWER 81 OF 99 CAPLUS COPYRIGHT 2002 ACS

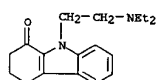
ACCESSION NUMBER: 1970:12476 CAPLUS
DOCUMENT NUMBER: 72:12476
TITLE: Synthesis of dialkylaminoalkyl derivatives of 1,2,3,4-tetrahydro-1-oxocarbazole
AUTHOR(S): Shvedov, V. I.; Altukhova, L. B.; Grinev, A. N.
CORPORATE SOURCE: Vses. Nauch.-Issled. Khim.-Farm. Inst. im. Ordzhonikidze, Moscow, USSR
SOURCE: Khim.-Farm. Zh. (1969), 3(8), 28-9
CODEN: KHFZAN
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB 1 were prepd. as potential antihistamine or antiserotonins. Thus, to a suspension of 0.04 mole of a 1,2,3,4-tetrahydro-1-oxocarbazole in 20 ml dioxane was added alc. NaOEt (from 0.04 mole Na), 0.04 mole dialkylaminoalkyl chloride added, and the mixt. heated 1 hr at 130-40.degree., and the product treated with Et2O-HCl to give the following I (R, R1, r2, & yield, and m.p. given): (CH2)2NMe2.HCl, H, 60, 203-4.degree. (EtOH); (CH2)2NMe2.HCl, H, H, 70, 150-1.degree. (acetone); (CH2)3NMe2.HCl, H, H, 77, 175-6.degree. (acetone-methanol); (CH2)2NMe2.HCl, Me, H, 65.5, 181-2.degree. (EtOH); (CH2)2NMe2.HCl, Me, H, 78, 174-5.degree. (1:1 acetone-MeOH); (CH2)2NMe2.HCl, OMe, H, 80, 211-12.degree. (EtOH); (CH2)2NMe2.HCl, Cl, H, 80, 213-14.degree. (EtOH); (CH2)2NMe2.HCl, H, Me, 80, 190-1.degree. (acetone); Me, CO2(CH2)2NMe2.HCl, H, 77, 203-4.degree. (MeOH); Me, CO2(CH2)3NMe2, H, 64, 90-1.degree. (aq. MeOH).
IT 15995-83-2P 15995-84-3P 18638-84-1P 18638-85-2P 18638-87-4P 24836-19-4P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
RN 15995-83-2 CAPLUS
CN 1H-Carbazol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



• HCl

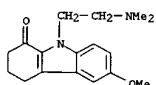
RN 15995-84-3 CAPLUS
CN 1H-Carbazol-1-one, 9-[2-(diethylamino)ethyl]-2,3,4,9-tetrahydro-,

L13 ANSWER 81 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
monohydrochloride (8CI) (CA INDEX NAME)



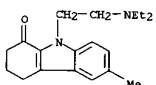
● HCl

RN 18638-84-1 CAPLUS
CN Carbazol-1(2H)-one, 9-[2-(dimethylamino)ethyl]-3,4-dihydro-6-methoxy-, monohydrochloride (8CI) (CA INDEX NAME)



● HCl

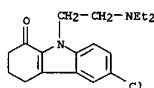
RN 18638-85-2 CAPLUS
CN Carbazol-1(2H)-one, 9-[2-(diethylamino)ethyl]-3,4-dihydro-6-methyl-, monohydrochloride (8CI) (CA INDEX NAME)



● HCl

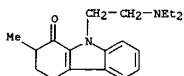
RN 18638-87-4 CAPLUS
CN Carbazol-1(2H)-one, 6-chloro-9-[2-(diethylamino)ethyl]-3,4-dihydro-, monohydrochloride (8CI) (CA INDEX NAME)

L13 ANSWER 81 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



● HCl

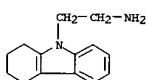
RN 24536-19-4 CAPLUS
CN Carbazol-1(2H)-one, 9-[2-(diethylamino)ethyl]-3,4-dihydro-2-methyl-, monohydrochloride (8CI) (CA INDEX NAME)



● HCl

L13 ANSWER 82 OF 99 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1969:481085 CAPLUS
DOCUMENT NUMBER: 71:81085
TITLE: Cycloparaffins condensed with heterocyclic rings. X.
AUTHOR(S): Hahn, Witold E.; Bartnik, Romuald; Zawadzka, Nowaczyk, M.
CORPORATE SOURCE: Univ. Lodz, Lodz, Poland
SOURCE: Lodz. Tow. Nauk. Wyd. III, Acta Chim. (1968), 13, 73-9
CODEN: LTNCAL
DOCUMENT TYPE: Journal
LANGUAGE: English
G1 For diagram(s), see printed CA issue.
AB 1-(.omega.-Aminoalkyl)-2,3-cycloalkenoindoles were synthesized for use as substrates in the prepn. of guanidine derivs. with pharmacol. activity.
The following I were prepd. by the methods of Hahn et al., (1967 and 1968)
(n, m, R, and m.p., given): 3, 2, CN, 118-19.degree.; 4, 1, CN, 126-7.degree.; 4, 2, CN, 120-2.degree.; 4, 2, CO₂H, 118-19.degree.; 4, 2, CO₂Et, b14 228-31.degree.; 4, 2, CONHNH₂, 133-8.degree.. These materials were then used in the prepn. of amino derivs. I (n = 3, m = 2, R = CN) (10.5 g.) as a suspension in Et₂O, was added dropwise over 2 hrs. to 3 g. LiAlH₄ in 200 ml. Et₂O in ice, the mixt. stirred 2 hrs., kept 12 hrs. at room temp., and refluxed 5 hrs., the green soln. cooled to 0.degree., 100 ml. N NaOH added, and the ppt. treated with HCl to give 68% I (n = 3, m = 3, R = NH₂.HCl), m. 197-9.degree.. I (n = 4, m = 1, R = CN) was similarly reduced to I (n = 4, m = 2, R = NH₂), b0.cntdot.2 146-7.degree.. I (n = 4, m = 2, R = CONHNH₂) was dissolved in 500 ml. 2% HCl, cooled, and treated with 27 g. NaNO₂ in 50 ml. H₂O at <10.degree., and refluxed with HCl 12 hrs. to give 63% I (n = 4, m = 2, R = NH₂.HCl), m. >300.degree..
This product was neutralized to give the liq., b0.cntdot.2 146-7.degree.; picrate m. 190-1.degree.. I (n = 4, m = 2, R = CN) was reduced to give I (n = 4, m = 3, R = NH₂), b9 180.degree.; picrate m. 187.degree.; hydrochloride m. 239-41.degree..
IT 23690-88-2P 23690-89-3P 23709-72-0P
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

L13 ANSWER 82 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
R 23690-88-2 CAPLUS
CN 9H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-, hydrochloride (9CI) (CA INDEX NAME)

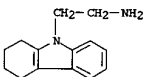


● x HCl

RN 23690-89-3 CAPLUS
CN Carbazole, 9-(2-aminoethyl)-1,2,3,4-tetrahydro-, picrate (8CI) (CA INDEX NAME)

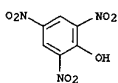
CH 1

CRN 23709-72-0
CMF C14 H18 N2

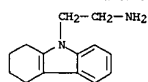


CH 2

CRN 88-89-1
CMF C6 H3 N3 O7



RN 23709-72-0 CAPLUS
CN 9H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro- (9CI) (CA INDEX NAME)



L13 ANSWER 83 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1969:450306 CAPLUS
 DOCUMENT NUMBER: 71:50306
 TITLE: 1-(Diethylaminoethyl)reserpine
 PATENT ASSIGNEE(S): Societe Civile de Marques et Brevets
 SOURCE: Fr., 4 pp.
 CODEN: FROKAX
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

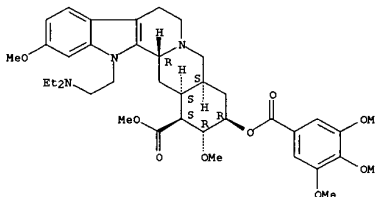
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1494069		19670908	FR	19650909

AB Reserpine is condensed with a halide X(CH₂)₂NEt₂ (X = halo) in the presence of a condensation agent in Me₂SO solvent at <30.degree. to give more easily purified 1-(diethylaminoethyl)reserpine (I). Thus, a soln. of 5 g. synthetic reserpine in 50 ml. Me₂SO was combined under N with 1.6 g. Et₂NCH₂CH₂Cl and 0.206 g. NaH (as a 50% mineral oil suspension) and the mixt. stirred 4 hrs. to give 5.02 g. I; ditartrate m. 145-50.degree.. Natural reserpine is also used to prep. I.

IT 53-18-9P 23618-66-8P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

RN 53-18-9 CAPLUS
 CN Yohimban-16-carboxylic acid, 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy], methyl ester, (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (9CI) (CA INDEX NAME)

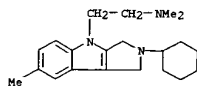
Absolute stereochemistry.



RN 23618-66-8 CAPLUS

L13 ANSWER 84 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1969:403204 CAPLUS
 DOCUMENT NUMBER: 71:3204
 TITLE: Indole derivatives. XXVII. 1,2,3,4-Tetrahydropyrrolo[3,4-b]indoles
 AUTHOR(S): Sharkova, N. M.; Kucheroval, N. F.; Aksanova, L. A.; Zagorevskii, V. A.
 CORPORATE SOURCE: Inst. Farmakol. Khimioter., Moscow, USSR
 SOURCE: Khim. Geterotsikl. Soedin. (1969), (1), 81-7
 CODEN: KGSSAQ
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI For diagram(s), see printed CA issue.
 AB To a soln. of 228 g. C₆H₁₁NH₂ in 285 ml. MeOH was added dropwise 200 g. Me acrylate at such a rate as to keep the temp. at 20-5.degree.. The whole was heated 1.5 hrs. at 60.degree. to yield 380 g. N-(beta-methoxycarbonyl)ethyl)cyclohexylamine (I), b_D 126-8.degree., n_D 1.4623. A mixt. of 250 g. I, 165 g. CH₂ClCO₂Et and 463 g. anhyd. K₂CO₃ was heated 18 hrs. at 100.degree. in an autoclave, dild. with H₂O, and extd. with Et₂O to yield 261 g. N-(beta-methoxycarbonyl)ethyl)-N-methoxycarbonylmethyl)cyclohexylamine (II), b_D 155-7.degree., n_D 1.4655. To EtONa, prepd. from 15.2 g. Na, dried 30 min. at 150.degree. in vacuo, was added 170 g. II in 250 ml. anhyd. xylene and the whole heated 1 hr. at 120.degree. with evapn. of EtOH. After cooling, the mixt. was treated with 1.3 l. 18% HCl, and the aq. layer sepd., refluxed 6 hrs., evapd. to 1/3 vol. in vacuo and basified with 50% NaOH to yield 52% III (R = cyclohexyl, R₁ = O), b_D 96-7.degree., n_D 1.4910. A mixt. of 0.01 mole III and 0.01 mole appropriate arylhydrazine-HCl in 10 ml. EtOH gave the following IV.HCl (R, Q, m.p., and % yield given): Bu, p-MeC₆H₄, 134-5.degree., 53; Bu, p-MeOC₆H₄, 122-2.5.degree., 85; cyclohexyl, p-MeC₆H₄, 170-1.degree. (decompn.), 87; cyclohexyl, Ph, 166-8.degree., 100; PhCH₂, p-MeOC₆H₄, 144-5.degree., 55.6; PhCH₂, p-ETO₂CC₆H₄, 153-4.degree., 83; PhCH₂, p-MeC₆H₄, 136-7.degree., 89; PhCH₂, beta-naphthyl, 153-3.5.degree., 98. The IV.HCl refluxed with HCl-EtOH, poured onto ice, and K₂CO₃ added, gave the following V (R, R₁, amt. of the resp. hydrazone-HCl in g., ml. of HCl-EtOH mixt., % of HCl in the mixt., reaction time (min.), m.p., and % yield given): Bu, Me, 15.3, 35, 34, 2, 160-9.degree. (HCl salt m. 173-4.degree.) 54; Bu, MeO, 3, 17.5, 2.5, 20, 146-8.degree. (methiodide m. 149-50.degree.) 11.5; Bu, H, 8, 24, 32, 2,

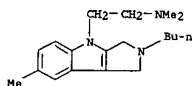
L13 ANSWER 84 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 150.degree., 11; cyclohexyl, Me, 10.8, 32, 30, 3, 215-16.degree.
 (HCl salt m. 206-8.degree. (decompn.)), 50; cyclohexyl, H, 5.2, 25, 30, 3,
 200-10.degree. (decompn.) (picrate m. 175-6.degree. (decompn.)), 13;
 cyclohexyl, MeO, 9, 40, 30, -, 218-20.degree. (decompn.) (HCl salt m.
 216-18.degree. (decompn.)), 62; PhCH2, Me, 4, 12, 35, 5,
 141-2.degree. (HCl salt m. 181-3.degree. (decompn.)), 61; PhCH2, MeO, 1, 10, 22,
 30, 143-3.5.degree., 25. Similarly were obtained the following VI (R,
 m.p., and % yield given): cyclohexyl, 200-10.degree. (tetrahydrofuran), 82;
 PhCH2, 208-3.degree. (HCl salt), 48; Bu, 163-4.degree., 21. To a
 suspension of 0.2 g. NaH in 30 ml. anhyd. HCONMe2 was added dropwise
 1.5 g. V (R = cyclohexyl, R1 = Me). The whole was stirred 1 hr. at
 20.degree. and heated to 60.degree., 1.1 g. N-methyl-N-(.gamma.-
 chloropropyl)piperazine added dropwise, stirred 2 hrs. at 60.degree.,
 cooled, and poured into H2O to yield 1.7 g.
 2-cyclohexyl-4[(.gamma.-4-methylpiperazin-1-yl)propyl]-7-methyl-1,2,3, 4-tetrahydropyrrolo[3,4-
 b]indole, m. 64.5-5.5.degree. (aq. EtOH). Similarly were obtained:
 2-cyclohexyl-4-(.beta.-dimethylaminoethyl)-7-methyl-1,2,3, 4-
 tetrahydropyrrolo[3,4-b]indole, m. 85-7.degree., in 79% yield and
 2-butyl-4-(.beta.-dimethylaminoethyl)-7-methyl-1,2,3, 4-
 tetrahydropyrrolo[3,4-b]indole dimaleate, m. 255-6.degree., in 35%
 yield.
 2-Butyl-4-(.beta.-cyanoethyl)-1,2,3,4-tetrahydropyrrolo[3,4-b]indole, m.
 90-1.degree., was obtained in 61.5% yield from V (R = Bu, R1 = H) and
 acrylonitrile by using Rodionov catalyst.
 IT 22870-47-9P 22905-57-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 22870-47-9 CAPLUS
 CN Pyrrolo[3,4-b]indole,
 2-cyclohexyl-4-[2-(dimethylamino)ethyl]-1,2,3,4-
 tetrahydro-7-methyl- (8CI) (CA INDEX NAME)



RN 22905-57-3 CAPLUS
 CN Pyrrolo[3,4-b]indole, 2-butyl-4-[2-(dimethylamino)ethyl]-1,2,3,4-
 tetrahydro-7-methyl-, maleate (1:2) (8CI) (CA INDEX NAME)
 CM 1
 CRN 47219-68-1

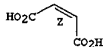
L13 ANSWER 85 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1969:68209 CAPLUS
 DOCUMENT NUMBER: 70:68209
 TITLE: Indole derivatives. XXIX. Synthesis and
 antiserotonin properties of some new indole
 derivatives
 AUTHOR(S): Aksanova, L. A.; Pidevich, I. N.; Sharkova, L.
 M.; Kucherova, N. F.
 CORPORATE SOURCE: Nauch.-Issled. Inst. Farmakol. Khimioter.,
 Moscow, USSR
 SOURCE: Khim.-Farm. Zh. (1968), 2(7), 3-10
 CODEN: KHFZAN
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI For diagram(s), see printed CA Issue.
 AB 1 (X = S) (II) I (X = NMe) (III), I (X = CH2) (IV), I [X = (CH2)2]
 (V), VI (R1 = R2 = Me) (VII), and VI (R1 = Me, R2 = Et) (VIII) were obtained
 by Fischer cyclization of the corresponding
 p-carbomethoxyphenylhydrazones.
 Similar cyclization of tetrahydro-4-thiopyrone o-
 carbomethoxyphenylhydrazones (IX) yielded 56.7% X, m. 150-1.degree..
 IX (93% yield, m. 90-1.degree.) was synthesized by 30 min. refluxing of
 14 g. o-carbomethoxyphenylhydrazine-HCl (m. 174-5.degree., prepd. from Me
 anthranilate by the method of Stroh and Westphal, 1963), 5.4 g.
 4-tetrahydrothiopyrone, and 100 ml. alc. VII, VIII, and X (0.028
 mole) in 50 ml. HCONMe2 (DMF) were added with stirring to 0.9 g. NaH in 30 ml.
 freshly prepd. DMF, the mixt. stirred 1.5 hrs. at 30-40.degree.,
 0.028 mole alkyl halide added, and the mixt. stirred 1.5-2 hrs. at room
 temp. and worked up to yield the following XI (R1, R2, R3, % yield, and
 m.p. given): Me, Me, Me, 79, 92-3.degree.; Me, Me, Et, 77.5, 72-3.degree.;
 PhCH2, Me, Et, 55.5, 63-4.degree.; CH2CH2NMe2, Me, Me, 85, - (HCl
 salt m. 210-11.degree.); CH2CH2NMe2, (R2R3 = CH2SCH2CH2), -, 74.1, - (HCl
 salt m. 118-19.degree.); and CH2CH2NMe2, Me, Me, 95, - (HCl salt m.
 215-17.degree.). Transesterification of II, III, IV, V, VII, VIII,
 X, and XI yielded the following compds. (% yield, m.p. base, and m.p. HCl
 salt given): 1,3,4,5-tetrahydrothiopyrano[4,3-c]indole-6-carboxylic acid
 (XII) .beta.-dimethylaminoethyl ester (XIII) 52.6, 117-18.degree.,
 234-6.degree.; 8-isomer (XIV) of XII .beta.-dimethylaminoethyl ester,
 50.3, 176-8.degree., 246-7.5.degree.; XIV .beta.-morpholinoethyl ester,
 57.5, 159-61.degree., -; XIV 5-(.beta.-dimethylaminoethyl) deriv.

L13 ANSWER 84 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CMF C19 H29 N3

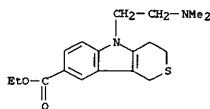


CM 2
 CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.

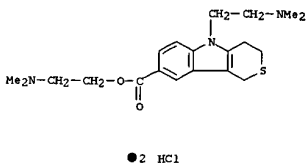


L13 ANSWER 85 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 .beta.-dimethylaminoethyl ester, 69.4, -, 273-5.degree.; XIV 5-benzyl
 deriv. .beta.-dimethylaminoethyl ester, 65.3, -, 209-10.degree.;
 .beta.-dimethylaminoethyl 1,2,3,4-tetrahydro-.gamma.-carboline-6-
 carboxylate (XV), 70.4, 148-9.degree., 269-70.degree.;
 .beta.-dimethylaminoethyl 1,2,3,4-tetrahydrocarbazole-6-carboxylate
 (XVI), 67.0, 151-2.degree., 209-10.degree.; .beta.-dimethylaminoethyl
 5,6,7,8,9,10-hexahydrocyclohept[c]indole-2-carboxylate (XVII), 80.0,
 124-5.degree., 183-4.degree.; .beta.-dimethylaminoethyl
 2,3-dimethylindole-5-carboxylate (XVIII), 60.6, 136-7.degree.,
 203-4.degree.; .beta.-dimethylaminoethyl 1,2,3-trimethylindole-5-
 carboxylate 72.1, 72-3.degree., 198-200.degree.;
 .beta.-dimethylaminoethyl 2-methyl-3-ethylindole-5-carboxylate, 70.0, 110-11.degree.,
 176-8.degree.; .beta.-dimethylaminoethyl 1,2-dimethyl-5-ethylindole-5-
 carboxylate, 80.0, -, 216-17.degree.; .beta.-dimethylaminoethyl
 1-benzyl-2-methyl-3-ethylindole-5-carboxylate, 95.0, -, 205-6.degree..
 Among the compds. synthesized XIII, XV, XVI, XVII, and XVIII had the
 strongest antiserotonin activity in anesthetized cats.
 IT 21523-68-2P 21523-83-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 21523-68-2 CAPLUS
 CN Thiopyrano[4,3-b]indole-8-carboxylic acid, 5-[2-(dimethylamino)ethyl]-
 1,3,4,5-tetrahydro-, ethyl ester, monohydrochloride (8CI) (CA INDEX
 NAME)



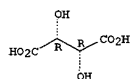
• HCl

RN 21523-83-1 CAPLUS
 CN Thiopyrano[4,3-b]indole-8-carboxylic acid, 5-[2-(dimethylamino)ethyl]-
 1,3,4,5-tetrahydro-, 2-(dimethylamino)ethyl ester, dihydrochloride
 (8CI) (CA INDEX NAME)



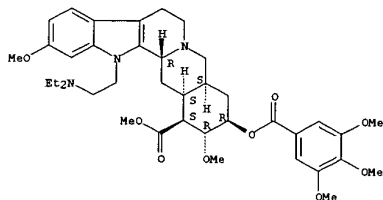
L13 ANSWER 86 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1968:450784 CAPLUS
 DOCUMENT NUMBER: 69:50784
 TITLE: Comparison of the sedative effects of reserpine, syrosingopine, and bietaserpine using the mouse behavior tests
 AUTHOR(S): Lafille, C.
 CORPORATE SOURCE: Lab. Pharmacodyn., Herouville-St-Clair, Fr.
 SOURCE: C. R. Soc. Biol. (1967), 161(12), 2461-5
 CODEN: CRSBAW
 DOCUMENT TYPE: Journal
 LANGUAGE: French
 AB In mice, the sedative effect of syrosingopine was 10 times weaker than that of reserpine, while the sedative effect of bietaserpine bitartrate was 800 times weaker than that of reserpine and 40 times weaker than that of syrosingopine. Bietaserpine bitartrate may be considered a peripherally acting sedative.
 IT 1111-44-0
 RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
 (sedative activity of)
 RN 1111-44-0 CAPLUS
 CN Yohimban-16-carboxylic acid, 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester, (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)-, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (9CI) (CA INDEX NAME)
 CM 1
 CRN 87-69-4
 CMF C4 H6 O6

Absolute stereochemistry.

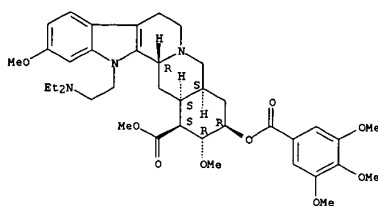


CM 2
 CRN 53-18-9
 CMF C39 H53 N3 O9

Absolute stereochemistry.



L13 ANSWER 87 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1968:433146 CAPLUS
 DOCUMENT NUMBER: 69:33146
 TITLE: Inhibition of cyclic 3',5'-nucleotide phosphodiesterase by phenothiazine and reserpine derivatives
 AUTHOR(S): Honda, Fumio; Imamura, Hitomi
 CORPORATE SOURCE: Res. Lab., Fujisawa Pharm. Co., Ltd., Osaka, Japan
 SOURCE: Biochim. Biophys. Acta (1968), 161(1), 267-9
 CODEN: BBACAQ
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Chlorpromazine, perphenazine, fluphenazine, and prochlorperazine (all at 5 .times. 10-5M) decreased the activity of cyclic 3',5'-nucleotide phosphodiesterase from beef heart to 86, 86, 82, and 86% of the control level, resp., and from rabbit brain cortex to 50, 40, 36, and 36% of the control level, resp. In general, substitution of position 2 of phenothiazine with a halogen or a halogenated group appeared to potentiate the inhibitory effect. Chlorprothixene showed a comparable inhibitory effect. Butyrophenones, including haloperidol, showed lesser inhibitory effects at 5 .times. 10-5M. Imipramine, demethylimipramine, amitriptyrine, meprobamate, and chlordiazepoxide (all at 5 .times. 10-5M) together with barbital, cocaine, picrotoxin, epinephrine, and serotonin (at concns. as high as 10-3M) failed to show significant effects. Reserpine and 1-(diethylaminoethyl)reserpine were more inhibitory than phenothiazine. 1-(Diethylaminoethyl)reserpine was 100-200-fold more potent than theophylline and the inhibition by either compd. was competitive; perphenazine acted noncompetitively. Inhibition by perphenazine was enhanced by preincubating with the enzyme prior to substrate addn. and was reversed by dialysis. Pretreatment of rats with chlorpromazine 1-(or diethylaminoethyl)reserpine (5-10 mg./kg.) potentiated the hyperglycemia induced by administration of cyclic 3',5'-AMP, suggesting the in vivo inhibition of cyclic 3',5'-nucleotide phosphodiesterase by these drugs.
 IT 53-18-9P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 53-18-9 CAPLUS
 CN Yohimban-16-carboxylic acid, 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester, (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



L13 ANSWER 88 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
oil. This was dissolved in abs. EtOH, dry HCl passed until the soln. was strongly acidic, and Et2O added to ppt. 46.7% 1-(gamma.-dimethylaminoisopropyl)-2,3-hexamethylenindole-HCl (VII), m. 146-7.degree. (EtOH-AcOEt). (This is procedure B). II (0.1 mole) and 0.12 mole 48% NaH in 100 cc. DMF was stirred and warmed to 40.degree., 0.1 mole dimethylaminoisopropyl chloride added, the mixt. stirred at 40.degree. 6 hrs., and the suspension poured into 250 cc. ice water and acidified with concd. HCl to give 50.5% 1-(beta.-dimethylaminoethyl)-2,3-pentamethylenindole-HCl, m. 189-90.degree. (abs. EtOH). A soln. of 0.1 mole II was treated with NaH in 100 cc. DMF as described. To this stirred suspension, 0.1 mole freshly distd. 1-(beta.-chloroethyl)piperidine (VIII) was added, the mixt. kept 16 hrs., poured into 300 cc. ice water, acidified with concd. HCl, and extd. with Et2O, the aq. soln. basified with 40% NaOH, the oil that sepd. taken up in Et2O, the Et2O soln. washed with satd. NaCl soln., dried, and evapd., the residual oil dissolved in 50 cc. EtOH, dry HCl passed through, and Me2CO added until crystn. occurred to give 43.8% 1-(beta.-piperidinoethyl)-2,3-pentamethylenindole-HCl, m. 209-10.degree.. (This is procedure C). A soln. of 0.1 mole II was converted to the Na deriv. using 0.12 mole 48% NaH in 150 cc. DMF, 0.1 mole freshly distd. diethylaminoethyl chloride was added dropwise, the mixt. stirred at 50.degree. 6 hrs. and poured into 33 cc. ice water, 15-20 cc. concd. HCl added, the aq. soln. extd. with Et2O several times, the aq. layer basified, the product taken up in Et2O, and the Et2O soln. washed with satd. aq. NaCl, dried, and evapd. in vacuo to give the free base which was dissolved in 50 cc. iso-PrOH and 4.8 g. fumaric acid in 200 cc. iso-PrOH added to give 34.5% 1-(beta.-diethylaminoethyl)-2,3-pentamethylenindole fumarate, m. 187-8.degree. (iso-PrOH); the free base methiodide m. 186-7.degree.. A suspension of 0.1 mole of the Na deriv. of II in 150 cc. DMF was treated with 0.1 mole freshly distd. 4-(beta.-chloroethyl)morpholine (IX) at 50.degree. 6 hrs., the mixt. poured into 300 cc. ice water, 15-20 cc. concd. HCl added, the mixt. extd. several times with Et2O, and the aq. phase sepd. and allowed to stand to give 71.6% 1-(beta.-morpholinoethyl)-2,3-pentamethylenindole-HCl, m.

L13 ANSWER 88 OF 99 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1968:95679 CAPLUS
DOCUMENT NUMBER: 68:95679
TITLE: Method of treating depression
INVENTOR(S): Rice, Leonard M.; Freed, Meier E.
PATENT ASSIGNEE(S): American Home Products Corp.
SOURCE: U.S., 7 pp.
CODEN: USXXKM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

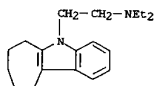
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3329571		19670704	US	19650203

GI For diagram(s), see printed CA issue.
AB Depression in humans is improved using I. A soln. of 0.1 mole 2,3-pentamethylenindole (II) in 100 cc. HCONMe2 (DMF) was added slowly to 0.12 mole NaH (6 g. 48% dispersion) suspended in 50 cc. DMF by vigorous stirring, the temp. slowly raised to 30-5.degree. until H evolution ceased, 0.1 mole freshly distd. gamma.-dimethylaminopropyl chloride (III) added to the suspension, the mixt. stirred and heated to 50.degree. 6 hrs., poured into 300 cc. ice water, and extd. with Et2O, the Et2O layers worked up, and the residue in abs. EtOH treated with dry HCl to give 1-(gamma.-dimethylaminopropyl)-2,3-pentamethylenindole-HCl (IV), m. 207-8.degree. (EtOH-Me2CO). (This is procedure A). The free base was prepd. from 0.1 mole II and 0.1 mole III as described. The reaction mixt. was poured into ice water, the oil layer extd. with Et2O, the Et2O soln. washed with aq. NaCl soln. several times with 100-cc. portions 2N HCl, the aq. acid soln. basified with NaOH, the oil extd. with Et2O, and the Et2O soln. washed with aq. NaCl, dried, and evapd. to give the free base (V) corresponding to IV as a viscous yellow oil, b0.1 180-3.degree.; maleate m. 101-2.degree. (CH2Cl2-Et2O); V methiodide, m. 186-7.degree.. III (0.1 mole) was added to a well-stirred suspension of 0.1 mole of the Na deriv. of 2,3-hexamethylenindole (VI) in 150 cc. DMF. After 6 hrs., the reaction mixt. was poured into 500 cc. ice water, the oil layer extd. with Et2O, the Et2O soln. washed with H2O, extd. with N HCl until acidic, and then with H2O, the aq. soln. washed with Et2O, basified, and extd. with Et2O, and the Et2O soln. washed with H2O, dried, and evapd. to give an orange

L13 ANSWER 88 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
181-2.degree. (dil. HCl). A suspension of 0.1 mole of the Na deriv. of II was treated with 0.1 mole freshly distd. 1-(beta.-chloroethyl)pyrrolidine (X) at 50.degree. 6 hrs., the mixt. poured into 300 cc. ice water, 15-20 cc. concd. HCl added, this mixt. extd. several times with Et2O, the aq. layer basified, the product taken up in Et2O, and the Et2O soln. worked up to give 9 g. 1-(beta.-pyrrolidinoethyl)-2,3-pentamethylenindole b0.2 193-6.degree.; fumarate m. 244-5.degree.. Acrylonitrile (0.20 mole) was added slowly with cooling to a soln. of 0.2 mole II and 4 cc. trimethylbenzylammonium methiodide (40% in MeOH) in 100 cc. C6H6. The reaction temp. reached 50.degree. and dropped slowly. The mixt. was stirred and addnl. hr., 5 cc. concd. HCl added, and the C6H6 soln. worked up to give 56.6% 1-(beta.-cyanoethyl)-2,3-pentamethylenindole (XI), m. 95-6.degree. (Me2CO-MeOH). (This is procedure D). A soln. of 0.1 mole XI in 100 cc. dry C6H6 was added slowly to a stirred suspension of 0.15 mole LiAlH4 in 500 cc. dry Et2O, the mixt. heated to reflux and stirred overnight, 30 cc. H2O added slowly with cooling, the mixt. kept one hr. and filtered, and the filtrate evapd. to give 81.5% 1-(gamma.-aminopropyl)-2,3-pentamethylenindole, b0.7 190-2.degree.; HCl salt m. 271-2.degree. (MeOH-Me2CO). (This is procedure E). Also, 1-(gamma.-dimethylaminopropyl)-2,3-pentamethylene-5-fluoroindole was prepd. from 0.05 mole of the 5-fluoro deriv. of II and 0.05 mole III using procedure A. The free base b0.3 178-80.degree.; HCl salt m. 177-80.degree.. Also, 1-(gamma.-dimethylaminopropyl)-2,3-pentamethylene-5-chloroindole was prepd. from 0.5 mole of the 5-chloro deriv. of II and 6.08 g. III using procedure A. The base b0.05 185-8.degree. (62.5% yield); fumarate salt m. 141-2.degree.. 1-(beta.-Dimethylaminoethyl)-2,3-pentamethylenindole was prepd. from 0.05 mole II and 0.05 mole beta.-dimethylaminoethyl chloride (XII) using procedure A. The base b0.05 131-6.degree.; fumarate m. 219-21.degree.. 1-(beta.-Dimethylaminoethyl)-2,3-hexamethylenindole was prepd. from 9.96 g. VI and 5.38 g. XII using procedure B. The free base b0.3 180-3.degree.; fumarate m. 198.5-201.0.degree.. 1-(beta.-Piperidinoethyl)-2,3-hexamethylenindole was prepd. from 0.05 mole VI and 0.5 mole VIII using procedure C. The fumarate m. 224.0-4.5.degree. (decompn.). 1-(gamma.-Dimethylaminoethyl)-2,3-tridecamethylenindole was prepd. from 0.03 mole 2,3-tridecamethylenindole and 0.03 mole III using procedure A. The fumarate

L13 ANSWER 88 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 m. 147.5-49.0.degree.. II (0.05 mole) was treated with 0.05 mole
 N,N-dimethyl-.beta.-phenyl-.beta.-chloroethylamine using procedure
 A. The free base m. 120-2.degree.; fumarate m. 195-7.degree..
 1-[(.gamma.-[4-methyl-1-piperazinyl]propyl]-2,3-pentamethylenindole
 was prep'd. from 0.027 mole II and 0.027 mole 1-methyl-4-(.gamma.-
 chloropropyl)piperazine (XIII) using procedure A. The difumarate m.
 217.5-18.5.degree.. Treatment of 0.0276 mole VI with 0.0276 mole
 XIII using procedure A gave
 1-[(.gamma.-[4-methyl-1-piperazinyl]propyl]-2,3-
 hexamethylenindole-2-HCl, m. 239-42.degree.; difumarate m.
 216-17.degree..
 Also,
 1-(.gamma.-dimethylaminopropyl)-2,3-pentamethylene-5-nitroindole was
 prep'd. from 0.02 mole of the 5-nitro deriv. of II and 0.02 mole III
 using procedure A. The free base m. 77.5-80.0.degree.; HCl salt m.
 220-3.degree.; fumarate (XIV) m. 178-80.degree..
 1-(.beta.-Cyanooethyl)-
 2,3-hexamethylenindole (XV) was prep'd. from 0.5 mole VI, 0.55 mole
 acrylonitrile, and 2 cc. trimethylbenzylammonium methoxide using
 procedure D. XV (0.107 mole) was converted to 1-(.gamma.-aminopropyl)-2,3-
 hexamethylenindole (XVI), b0.1 162-5.degree., n20D 1.5959, using
 procedure E. XIV (0.01 mole) was dissolved in 100 cc. MeOH and hydrogenated
 over 100 mg. PtO2 at 45 psi. and 75.degree.. After 4 hrs., the catalyst
 was filtered off, the solvent evap'd. in vacuo, the residue taken up in
 H2O, the mixt. basified with 10% NaOH and extd. with Et2O, and the Et2O
 phase worked up and treated with dry HCl to give
 1-(.gamma.-dimethylaminopropyl)-
 2,3-pentamethylene-5-aminoindole-HCl, m. 260-1.degree. (iso-PrOH).
 To a soln. of 0.045 mole XVI in 50 cc. MeOH, 0.1 mole ethylene oxide was
 added slowly. After 2 days, the MeOH was evap'd. and the residue dist'd.
 to give
 77.5%
 1-[(.gamma.-bis[2-hydroxyethyl]-aminopropyl)-2,3-hexamethylenindole,
 b0.001 245-50.degree.. Using procedure A, 0.025 mole 2,3-
 octamethylenindole was treated with 0.025 mole III. The fumarate m.
 174-6.degree. (decompn.). II (0.03 mole) was treated with 0.033
 mole XIII using procedure A to give 1-(.gamma.-piperazinopropyl)-2,3-
 pentamethylenindole; difumarate m. 172-4.degree.. VI (0.05 mole) was
 treated with 0.05 mole IX using procedure A to give 1-(.beta.-
 morpholinoethyl)-2,3-hexamethylenindole; fumarate m. 174-6.degree..
 Using procedure A, 0.04 mole VI was treated with 0.04 mole X to give
 1-(.beta.-pyrrolidinoethyl)-2,3-hexamethylenindole; fumarate m.

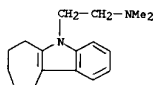
L13 ANSWER 88 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CHF C19 H28 N2



CM 2
 CRN 74-88-4
 CHF C H3 I

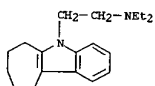
H3C-I

RN 17901-83-6 CAPLUS
 CN Cyclohept[b]indole,
 5-[2-(dimethylamino)ethyl]-5,6,7,8,9,10-hexahydro-
 (8CI) (CA INDEX NAME)



RN 17929-92-9 CAPLUS
 CN Cyclohept[b]indole,
 5-[2-(diethylamino)ethyl]-5,6,7,8,9,10-hexahydro-,
 fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1
 CRN 47143-29-3
 CMF C19 H28 N2



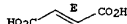
CM 2

L13 ANSWER 88 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 231-3.degree.. XI (0.17 mole) dissolved in 300 cc. abs. EtOH was
 satd. with dry HCl, 2 cc. H2O added and the mixt. refluxed 2 hrs., cooled to
 room temp., the sepd. NH4Cl filtered, the filtrate conc'd. in vacuo,
 the residue taken up in Et2O, and the Et2O ext. worked up to yield 31 g.
 1-(.beta.-carbethoxyethyl)-2,3-pentamethylenindole (XVII), b0.05
 220-5.degree.. (This is procedure F). XVII (0.11 mole) in 200 cc.
 dry Et2O was added slowly to a stirred suspension of 0.05 mole LiAlH4 in
 200 cc. dry Et2O, the reaction mixt. refluxed 4 hrs. and cooled, 12 cc.
 H2O added dropwise, and then 50 cc. iso-PrOH, the suspension filtered,
 and the filtrate conc'd. to yield 82.3% 1-(.gamma.-hydroxypropyl)-2,3-
 pentamethylenindole, b0.05 210-15.degree.. Then, 0.02 mole of the
 above comp'd., 10 cc. 48% aq. HBr, and 2 cc. conc'd. H2SO4 was refluxed 1.5
 hrs., cooled, poured onto ice, and extd. with Et2O to give 2.8 g.
 1-(.gamma.-bromopropyl)-2,3-pentamethylenindole, b0.05 185-90.degree..
 Then, a mixt. of 0.026 mole this comp'd. and 0.03 mole N-(.beta.-
 hydroxyethyl)piperazine in 100 cc. xylene was refluxed 24 hrs.,
 cooled, and worked up and dry HCl added to ppt. 1-(.gamma.-[4-(.beta.-
 hydroxyethyl)piperazinopropyl]-2,3-pentamethylenindole-HCl, m.
 209-10.degree. (EtOH). Using procedure A, the 5-methyl deriv. of II
 was treated with III to give 1-(.gamma.-dimethyl-aminopropyl)-2,3-
 pentamethylene-5-methylindole fumarate, m. 141.5-5.0.degree..
 XV was converted to 1-(.beta.-carbomethoxyethyl)-2,3-hexamethylenindole, m.
 62-4.degree., using procedure F with 1250 cc. MeOH and 5 cc. H2O.
 This comp'd. (10 g.) in 50 cc. MeOH satd. at 0.degree. with MeNH2 was kept
 at room temp. 48 hrs. to give 1-(.beta.-methylcarbamoyl)ethyl)-2,3-
 hexamethylenindole, m. 115-16% (MeOH). Then, 11 g. of this product
 in 500 cc. C6H6 was treated with 10 g. LiAlH4 in 1 l. dry Et2O and the mixt.
 decomp'd. with 25 cc. H2O to yield 1-(.gamma.-methylaminopropyl)-2,3-
 hexamethylenindole, b0.1 160-70.degree.; HCl salt m. 180-1.degree..
 The results of clinical tests of VII were given
 IT 17901-75-6P 17901-83-6P 17929-92-9P
 17929-95-2P 17929-96-3P 17929-99-6P
 17993-66-7P 17993-67-8P 21283-91-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 17901-75-6 CAPLUS
 CN Cyclohept[b]indole, 5-[2-(diethylamino)ethyl]-5,6,7,8,9,10-hexahydro-,
 monomethiodide (8CI) (CA INDEX NAME)
 CM 1
 CRN 47143-29-3

L13 ANSWER 88 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

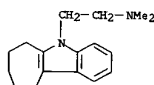
CRN 110-17-8
 CHF C4 H4 O4

Double bond geometry as shown.



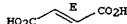
RN 17929-95-2 CAPLUS
 CN Cyclohept[b]indole,
 5-[2-(dimethylamino)ethyl]-5,6,7,8,9,10-hexahydro-,
 fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1
 CRN 17901-83-6
 CMF C17 H24 N2



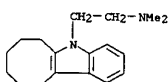
CM 2
 CRN 110-17-8
 CHF C4 H4 O4

Double bond geometry as shown.



RN 17929-96-3 CAPLUS
 CN 5H-Cyclooct[b]indole,
 5-[2-(dimethylamino)ethyl]-6,7,8,9,10,11-hexahydro-,
 fumarate (1:1) (8CI) (CA INDEX NAME)

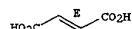
CM 1
 CRN 17993-66-7
 CMF C18 H26 N2



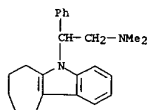
CM 2

CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.

RN 17929-99-6 CAPLUS
CN Cyclohept[b]indole,
5-[(.alpha.-[(dimethylamino)methyl]benzyl]-5,6,7,8,9,10-
hexahydro-, fumarate (1:1) (8CI) (CA INDEX NAME)

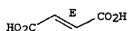
CM 1

CRN 17993-67-8
CMF C23 H28 N2

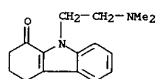
CM 2

CRN 110-17-8
CMF C4 H4 O4

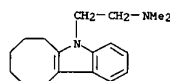
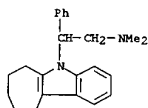
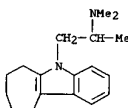
Double bond geometry as shown.

RN 17993-66-7 CAPLUS
CN 5H-Cyclooct[b]indole,
5-[2-(dimethylamino)ethyl]-6,7,8,9,10,11-hexahydro-

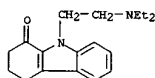
L13 ANSWER 89 OF 99 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1968:37793 CAPLUS
DOCUMENT NUMBER: 68:37793
TITLE: Antihistamine and antiserotonin properties of
1-oxo-1,2,3,4-tetrahydrocarbazole derivatives
AUTHOR(S): Andreeva, N. I.
CORPORATE SOURCE: Vses. Nauch.-Issled. Khim.-Farmatsevt. Inst. im.
Ordzhonikidze, Moscow, USSR
SOURCE: Farmakol. Toksikol. (Moscow) (1967), 30(6),
713-17
CODEN: FATOAO
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA issue.
AB Nine N-dialkylaminoalkyl- (I) and 2 N-lupinanyl-1-oxo-1,2,3,4-
tetrahydrocarbazoles (II), and 2 1-oxo-1,2,3,4-tetrahydrocarbazolyl
carboxylic acid diethylaminoalkyl esters (III) were tested for
antihistamine and antiserotonin action in vivo in cats and guinea
pigs and
in vitro on isolated rat uterus and on guinea pig intestinal slices.
I (R2 = R3 = H, R4 = Me, n = 2).HCl exhibited the greatest
antihistamine
properties and I (R2 = R3 = H, R4 = Et, n = 2).HCl the strongest
antiserotonin action. Lengthening the side chain to 3 methylene
groups
between the N atoms decreased both types of activity. The
antihistamine
effect was also decreased by a substitution of Et for Me groups at
the
side chain N and by substitution onto the carbazole ring.
IT 15995-83-2 15995-84-3 18638-84-1
18638-85-2 18638-86-3 18638-87-4
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmacology of)
RN 15995-83-2 CAPLUS
CN 1H-Carbazol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-,
monohydrochloride (9CI) (CA INDEX NAME)



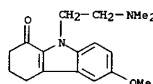
● HCl

RN 15995-84-3 CAPLUS
CN 1H-Carbazol-1-one, 9-[2-(diethylamino)ethyl]-2,3,4,9-tetrahydro-,
monohydrochloride (9CI) (CA INDEX NAME)RN 17993-67-8 CAPLUS
CN Cyclohept[b]indole,
5-[(.alpha.-[(dimethylamino)methyl]benzyl]-5,6,7,8,9,10-
hexahydro- (8CI) (CA INDEX NAME)RN 21283-91-0 CAPLUS
CN Cyclohept[b]indole,
5-[2-(dimethylamino)propyl]-5,6,7,8,9,10-hexahydro-,
monohydrochloride (8CI) (CA INDEX NAME)

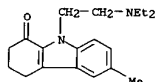
● HCl



● HCl

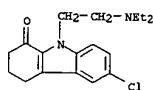
RN 18638-84-1 CAPLUS
CN Carbazol-1(2H)-one, 9-[2-(dimethylamino)ethyl]-3,4-dihydro-6-methoxy-,
monohydrochloride (8CI) (CA INDEX NAME)

● HCl

RN 18638-85-2 CAPLUS
CN Carbazol-1(2H)-one, 9-[2-(diethylamino)ethyl]-3,4-dihydro-6-methyl-,
monohydrochloride (8CI) (CA INDEX NAME)

● HCl

RN 18638-86-3 CAPLUS
RN 18638-87-4 CAPLUS
CN Carbazol-1(2H)-one, 6-chloro-9-[2-(diethylamino)ethyl]-3,4-dihydro-,
monohydrochloride (8CI) (CA INDEX NAME)



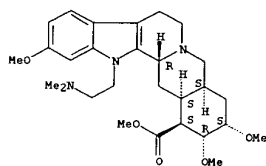
● HCl

L13 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1967:490993 CAPLUS
 DOCUMENT NUMBER: 67:90993
 TITLE: Derivatives of yohimban
 INVENTOR(S): Bonati, Attilio
 PATENT ASSIGNEE(S): Ioveni and Della Beffa S.p.A.
 SOURCE: Brit., 3 pp.
 CODEN: BRXXAA
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1064496		19670405	GB	19631114

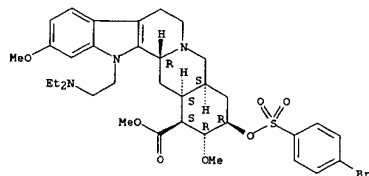
GI For diagram(s), see printed CA issue.
 AB I (4.28 g.) is dissolved in 200 cc. of dioxane contg. 1.38 g. Me₂NCH₂CH₂Cl, 0.64 g. NaH in a 50% oil suspension was added in portions and over 1 hr. to the boiling soln. The mixt. was refluxed with agitation for 2 hrs. to give I (R = CH₂CH₂NMe₂), m. 195-7.degree., [.alpha.]_D²⁰ -50.degree. (c 1, CHCl₃). Similarly prepd. were the following I [R, m.p., [.alpha.]_D²⁰ (c 1, CHCl₃) given]: (methyl 1-diethylaminoethyl-18-p-bromobenzenesulfonfylreserpate), 180-2.degree., -85.degree.; Et₂NCH₂CH₂, 155-8.degree., -57.5.degree.; Bu, 195-7.degree., -51.5.degree.; Me, 172-4.degree., -10.degree.; Et, 158-9.degree., -27.5.degree.; CH₂CHCH₂, 159-60.degree., -35.degree.; Fr, 161-2.degree., -40.degree.; iso-amy, 195-7.degree., -55.degree.; PhCH₂, 224-6.degree., -92.5.degree.; iso-Pr₂NCH₂CH₂, 125-7.degree., -70.degree.; Me(iso-Pr)NCH₂CH₂, 166-8.degree., -60.degree.; Me₂N(CH₂)₃, 188-93.degree., -52.5.degree.; piperidinoethyl, 166-8.degree., -47.5.degree.; morpholinoethyl, 158-60.degree., -54.5.degree.; IT 16617-17-7p 16617-18-8p 16617-19-9p 16617-27-9p 16617-28-0p
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 16617-17-7 CAPLUS
 CN 3.beta.,20.alpha.-Yohimban-16.beta.-carboxylic acid, 1-[2-(diethylamino)ethyl]-11,17.alpha.,18.alpha.-trimethoxy-, methyl ester (8CI) (CA INDEX NAME)

Absolute stereochemistry.



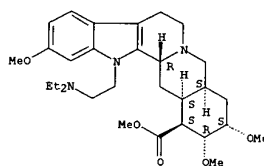
RN 16617-18-8 CAPLUS
 CN 3.beta.,20.alpha.-Yohimban-16.beta.-carboxylic acid, 1-[2-(diethylamino)ethyl]-18.beta.-hydroxy-11,17.alpha.-dimethoxy-, methyl ester, p-bromobenzenesulfonate (ester) (8CI) (CA INDEX NAME)

Absolute stereochemistry.



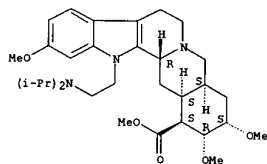
RN 16617-19-9 CAPLUS
 CN 3.beta.,20.alpha.-Yohimban-16.beta.-carboxylic acid, 1-[2-(diethylamino)ethyl]-11,17.alpha.,18.alpha.-trimethoxy-, methyl ester (8CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 16617-27-9 CAPLUS
 CN 3.beta.,20.alpha.-Yohimban-16.beta.-carboxylic acid, 1-[2-(diisopropylamino)ethyl]-11,17.alpha.,18.alpha.-trimethoxy-, methyl ester (8CI) (CA INDEX NAME)

Absolute stereochemistry.



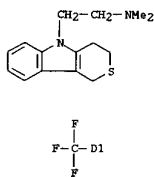
RN 16617-28-0 CAPLUS
 CN 3.beta.,20.alpha.-Yohimban-16.beta.-carboxylic acid, 1-[2-(isopropylmethylamino)ethyl]-11,17.alpha.,18.alpha.-trimethoxy-, methyl ester (8CI) (CA INDEX NAME)

Absolute stereochemistry.

CN(C)CCN1C2=CC=CC=C2C3=CC=CC=C3S1

RN 29465-19-8 CAPLUS

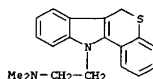
RN 29465-20-1 CAPLUS
CN Thiopyrano[4,3-b]indole,
5-[2-(dimethylamino)ethyl]-1,3,4,5-tetrahydro-
7(or 9)-(trifluoromethyl)-, monohydrochloride (8CI) (CA INDEX NAME)



● HCl

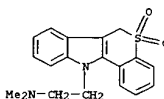
L13 ANSWER 92 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 dihydro[1]benzthiopyrano-[4,3-b]indole-HCl, m. 227-8.degree..
 1,2,3,4-Tetrahydro-gamma.-carboline reduced with NaH in Me2NCHO 2
 hrs. at
 60.degree., then treated with .gamma.-(4-methyl-1-piperazinyl)propyl
 chloride (IV) and kept overnight, gave 544
 3-methyl-9-(.gamma.-4-methyl-1-
 piperazinyl)-propyl-1,2,3,4-tetrahydro-gamma.-carboline, m.
 76-7.degree..
 Similarly 1,3,4,5-tetrahydrothiopyrano[4,3-b]indole and IV gave 944
 5-[.gamma.-(4-methyl-1-piperazinyl)propyl]-1,3,4,5-tetrahydrothiopyrano-
 [4,3-b]indole-2HCl, m. 215-16.degree.. Similarly were obtained: 404
 5(or
 7)-(trifluoromethyl)-9-.gamma.-(dimethylamino)propyl-1,2,3,4-
 tetrahydrocarbazole-HCl, m. 235-7.degree.; 7(or
 9)-(trifluoromethyl)-11
 -.beta.-(dimethylamino)ethyl-6,11-
 dihydro[1]benzopyrano[4,3-b]indole-
 HCl, m. 253-5.degree.; 5-benzyl-1,3,4,5-tetrahydrothiopyrano[4,3-
 b]indole, m. 107-8.degree.; 5-.beta.-(dimethylamino)ethyl-1,3,4,5-
 tetrahydrothiopyrano[4,3-b]indole-HCl, decompd. 245-6.degree..
 5-.gamma.-(dimethylamino)propyl-1,3,4,5-tetrahydrothiopyrano[4,3-b]indole-
 HCl (IVa), decompd. 200-2.degree.; 9(or 7)-trifluoromethyl)-5-.beta.-
 (dimethylamino)ethyl-1,3,4,5-tetrahydrothiopyrano[4,3-b]indole-HCl,
 decompd. 267-9.degree. (base m. 92-3.degree.); 9(or
 7)-(trifluoromethyl)-5-
 .gamma.-(dimethylamino)propyl-1,3,4,5-tetrahydrothiopyrano[4,3-b]indole-
 HCl, m. 216-18.degree. (free base m. 85-6.degree.); 9(or
 7)-(trifluoromethyl)-5-.gamma.-(4-methyl-1-piperazinyl)propyl-1,3,4,5-
 tetrahydrothiopyrano-[4,3-b]indole-2HCl, decompd. 226-8.degree.
 (base m.
 119-20.degree.); 7-(or
 9)-(trifluoromethyl)-11-.beta.-(dimethylamino)ethyl-
 6,11-dihydro[1] benzthiopyrano-[4,3-b]indole-HCl, m. 228-30.degree..
 7(or
 9)-(trifluoromethyl)-11-.gamma.-(4-methyl-1-piperazinyl)propyl-6,11-
 dihydro[1]benzthiopyrano[4,3-b]indole-2HCl, decompd. 265-6.degree.
 (base
 m. 140-1.5.degree.); 11-.beta.-(dimethylamino)ethyl-6,11-
 dihydro[1]benzthiopyrano[4,3-b]indole 5,5-dioxide-HCl, decompd.
 271-3.degree.; 12-.beta.-(dimethylamino)ethyl-6,7-
 dihydro[1]benzthiopyrano[4,3-b]-indole-HCl decompd. 227-8.degree.;
 3-methyl-5(or
 7)-(trifluoromethyl)-9-.beta.-(dimethylamino)ethyl-1,2,3,4-
 tetrahydro-gamma.-carboline, m. 47-9.degree. (di-HCl salt m.
 264-5.5.degree.), which gave tri-HCl salt, decompd. 221-3.degree..
 II1a,
 II1b, and IVa were comparable to or more active psychotropics in
 comparison with Tofranil.
 IT 5547-40-0, [1]Benzothiopyrano[4,3-b]indole, 11-[2-
 (dimethylamino)ethyl]-6,11-dihydro-, hydrochloride 5547-41-1,
 [1]Benzothiopyrano[4,3-b]indole,
 11-[2-(dimethylamino)ethyl]-6,11-dihydro-

L13 ANSWER 92 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 , 5,5-dioxide, hydrochloride 30700-25-5, [1]Benzopyrano[4,3-
 b]indole, 11-[2-(dimethylamino)ethyl]-6,11-dihydro-7(or
 9)-(trifluoromethyl)-, hydrochloride 30700-31-3,
 [1]Benzothiopyrano[4,3-b]indole,
 11-[2-(dimethylamino)ethyl]-6,11-dihydro-
 7(or 9)-(trifluoromethyl)-, hydrochloride 98102-44-4, Carbazole,
 9-[2-(dimethylamino)ethyl]-1,2,3,4-tetrahydro-5(or
 7)-(trifluoromethyl)-,
 hydrochloride 99887-37-3, 6H[1]Benzothiepine[5,4-b]indole,
 12-[2-(dimethylamino)ethyl]-7,12-dihydro-, hydrochloride
 [prepn. of]
 RN 5547-40-0 CAPLUS
 CN [1]Benzothiopyrano[4,3-b]indole,
 11-[2-(dimethylamino)ethyl]-6,11-dihydro-
 , monohydrochloride (8CI) (CA INDEX NAME)



● HCl

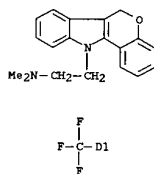
RN 5547-41-1 CAPLUS
 CN [1]Benzothiopyrano[4,3-b]indole,
 11-[2-(dimethylamino)ethyl]-6,11-dihydro-
 , 5,5-dioxide, monohydrochloride (8CI) (CA INDEX NAME)



● HCl

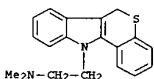
RN 30700-25-5 CAPLUS
 CN [1]Benzopyrano[4,3-b]indole,
 11-[2-(dimethylamino)ethyl]-6,11-dihydro-7(or
 9)-(trifluoromethyl)-, monohydrochloride (8CI) (CA INDEX NAME)

L13 ANSWER 92 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



● HCl

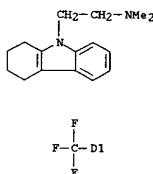
RN 30700-31-3 CAPLUS
 CN [1]Benzopyrano[4,3-b]indole,
 11-[2-(dimethylamino)ethyl]-6,11-dihydro-
 7(or 9)-(trifluoromethyl)-, monohydrochloride (8CI) (CA INDEX NAME)



● HCl

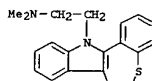
RN 98102-44-4 CAPLUS
 CN Carbazole, 9-[2-(dimethylamino)ethyl]-1,2,3,4-tetrahydro-5(or
 7)-(trifluoromethyl)-, hydrochloride (7CI) (CA INDEX NAME)

L13 ANSWER 92 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



●x HCl

RN 99887-37-3 CAPLUS
 CN 6H-[1]Benzothiepine[5,4-b]indole,
 12-[2-(dimethylamino)ethyl]-7,12-dihydro-
 , hydrochloride (7CI) (CA INDEX NAME)



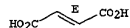
●x HCl

L13 ANSWER 93 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1966:19187 CAPLUS
 DOCUMENT NUMBER: 64:19187
 ORIGINAL REFERENCE NO.: 64:3492g-h,3493a
 TITLE: 11-(Tertiary aminoalkyl)-5,6-dihydro-11H-benzo[a]carbazoles
 INVENTOR(S): Freed, Meier E.; Rice, Leonard M.; Hertz, Elisabeth
 PATENT ASSIGNEE(S): American Home Products Corp.
 SOURCE: 3 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

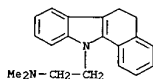
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3215691		19651102	US 19620124	

AB The title compds. are claimed to have antidepressant, anorectic, and anti-histaminic activity. 5,6-Dihydro-11H-benzo[a]carbazole (11 g.) and 1.44 g. NaH in 100 ml. HCONMe₂ was stirred 1 hr. at 35-40.degree., treated with 6 g. Me₂N(CH₂)₃Cl and the mixt. stirred overnight. The mixt. was cooled, poured into ice-H₂O, acidified with dilute HCl, extd. with Et₂O, and the aq. layer basified with NaOH. The oily product which sepd. was extd. with Et₂O and the Et₂O ext. was washed with aq. NaCl, dried, and evapd. to give 11-(3-dimethylaminopropyl)-5,6-dihydro-11H-benzo[a]carbazole, m. 59-60.degree. (90% EtOH) [HCl salt m. 222-3.degree. (Me₂CO-MeOH)]. Similarly prepd. were the following substituted 5,6-dihydro-11H-benzo[a]carbazoles (substituent given): 11-(2-piperidinoethyl), m. 91-2.degree. (HCl salt m. 214-222.degree., fumarate salt m. 204-6.degree.); 11-(2-dimethylaminoethyl), (HCl salt m. 228-31.degree.); 11-(2-pyrrolidinoethyl), m. 85.6-86.0.degree. (fumarate salt m. 192.5-3.degree.); 11-(2-dimethylaminoethyl), b0.08 168.degree. (fumarate salt m. 147-50.degree.); 11-(2-dimethylaminopropyl), (fumarate salt m. 159-62.degree.); 11-(2-morpholinoethyl), m. 122-3.degree.; 11-(3-diethylaminopropyl) [fumarate salt m. 142-4.degree. (decompn.)]; and 11-(6-dimethylaminohexyl) (fumarate salt m. 104-7.degree.).
 IT 4624-81-1, 5H-Benzo[a]carbazole, 11-[2-(dimethylamino)ethyl]-6,11-dihydro-, hydrochloride 4629-97-4, 5H-Benzo[a]carbazole, 11-[2-(diethylamino)ethyl]-6,11-dihydro- 4629-98-5, 5H-Benzo[a]carbazole, 11-[2-(diethylamino)ethyl]-6,11-dihydro-, fumarate (1:1) 5014-02-8, 5H-Benzo[a]carbazole, 11-[2-(dimethylamino)ethyl]-6,11-dihydro- (prepn. of)

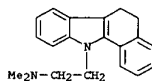
L13 ANSWER 93 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 Double bond geometry as shown.



RN 5014-02-8 CAPLUS
 CN 5H-Benzo[a]carbazole, 11-[2-(dimethylamino)ethyl]-6,11-dihydro (7CI, 8CI)
 (CA INDEX NAME)

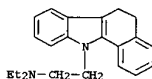


L13 ANSWER 93 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RN 4624-81-1 CAPLUS
 CN 11H-Benzo[a]carbazole-11-ethanamine, 5,6-dihydro-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

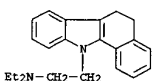
RN 4629-97-4 CAPLUS
 CN 5H-Benzo[a]carbazole, 11-[2-(diethylamino)ethyl]-6,11-dihydro- (7CI, 8CI)
 (CA INDEX NAME)



RN 4629-98-5 CAPLUS
 CN 5H-Benzo[a]carbazole, 11-[2-(diethylamino)ethyl]-6,11-dihydro-, fumarate (1:1) (7CI, 8CI) (CA INDEX NAME)

CM 1

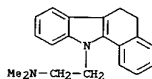
CRN 4629-97-4
 CMF C22 H26 N2



CM 2

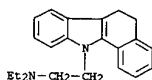
CRN 110-17-8
 CMF C4 H4 O4

L13 ANSWER 94 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1964:461632 CAPLUS
 DOCUMENT NUMBER: 61:61632
 ORIGINAL REFERENCE NO.: 61:10667g-h
 TITLE: Antidepressants. II. Derivatives of polynuclear indoles
 INVENTOR(S): Freed, Meier E.; Hertz, Elisabeth; Rice, Leonard M.
 CORPORATE SOURCE: Wyeth Labs. Inc., Radnor, PA
 SOURCE: J. Med. Chem. (1964), 7(5), 628-32
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 G1 For diagram(s), see printed CA issue.
 AB cf. CA 61, 4300f. A series of N-substituted derivs. of polycyclic indole systems was prepd. and examd. for central nervous system activity. Examples of 1,3,4,5-tetrahydrothiopyrano[4,3-b]indoles, 5,6-dihydro-11H-benzo[a]carbazole, 2,3-pentamethylene-1H-benz[*g*]indole (I), 5,6-dihydro-13H-dibenzo[*a*,*i*]carbazole, and 10H-benzofuro[3,2-*b*]indoles (II) were included. The indole systems required were obtained via modifications of the Fischer indole synthesis and converted to N-substituted derivs. by varied methods. Some of the pharmacologic activities of the compds. are discussed.
 IT 4624-81-1, 5H-Benzo[a]carbazole, 11-[2-(dimethylamino)ethyl]-6,11-dihydro-, hydrochloride 4629-97-4, 5H-Benzo[a]carbazole, 11-[2-(diethylamino)ethyl]-6,11-dihydro- 4629-98-5, 5H-Benzo[a]carbazole, 11-[2-(diethylamino)ethyl]-6,11-dihydro-, fumarate (1:1) (prepn. of)
 RN 4624-81-1 CAPLUS
 CN 11H-Benzo[a]carbazole-11-ethanamine, 5,6-dihydro-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

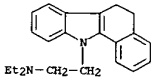
RN 4629-97-4 CAPLUS
 CN 5H-Benzo[a]carbazole, 11-[2-(diethylamino)ethyl]-6,11-dihydro- (7CI, 8CI)
 (CA INDEX NAME)



RN 4629-98-5 CAPLUS
CN 5H-Benzo[a]carbazole, 11-[2-(diethylamino)ethyl]-6,11-dihydro-,
fumarate (1:1) (7CI, 8CI) (CA INDEX NAME)

CM 1

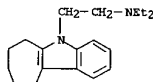
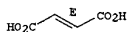
CRN 4629-97-4
CMF C22 H26 N2



CM 2

CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.



CM 2

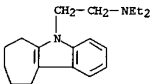
CRN 74-88-4
CMF C H3 I

H3C-I

RN 17929-92-9 CAPLUS
CN Cyclohept[b]indole, 5-[2-(diethylamino)ethyl]-6,7,8,9,10-hexahydro-,
fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1

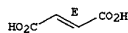
CRN 47143-29-3
CMF C19 H28 N2



CM 2

CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.



RN 17929-95-2 CAPLUS
CN Cyclohept[b]indole, 5-[2-(dimethylamino)ethyl]-6,7,8,9,10-hexahydro-,
fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1

ACCESSION NUMBER: 1964:425255 CAPLUS
DOCUMENT NUMBER: 61:25255
ORIGINAL REFERENCE NO.: 61:4300F-g
TITLE: Antidepressant agents. Derivatives of 2,3-polymethyleneindoles
AUTHOR(S): Rice, Leonard M.; Hertz, Elisabeth; Freed, Meier E.
CORPORATE SOURCE: Wyeth Labs., Philadelphia, PA
SOURCE: J. Med. Chem. (1964), 7(3), 313-19
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB A series of substituted 2,3-(polymethylene)indoles was prepd. from phenylhydrazines and alicyclic ketones by the Rogers-Carson modification (CA 42, 1261a) of the Fischer indole syntheses or by the method of Buu Hoi (CA 44, 7307c). Alkylation of the Na deriv. of the (polymethylene)indoles with dialkylaminoalkyl chlorides gave N-alkyl derivs. The Na derivs. were prepd. by treating the indoles in HCONMe2 with 48% NaH mineral oil with HCONMe2 as solvent. The compds. were tested for central nervous system activity and weight loss activity. Some were active as antidepressants. In the weight loss test, 5-(3-dimethylaminopropyl)-6,7,8,9,10,11-hexahydro-5H-cyclooct[b]indole was the most active. The compds. are in the same psychopharmacol. family as imipramine.

IT 17901-75-6, Cyclohept[b]indole, 5-[2-(diethylamino)ethyl]-5,6,7,8,9,10-hexahydro-, methiodide 17929-92-9, Cyclohept[b]indole, 5-[2-(diethylamino)ethyl]-5,6,7,8,9,10-hexahydro-, fumarate 17929-95-2, Cyclohept[b]indole, 5-[2-(dimethylamino)ethyl]-5,6,7,8,9,10-hexahydro-, fumarate 17929-96-3, 5H-Cyclooct[b]indole, 5-[2-(dimethylamino)ethyl]-6,7,8,9,10,11-hexahydro-, fumarate 17929-99-6, Cyclohept[b]indole, 5-[alpha-[(dimethylamino)methyl]benzyl]-5,6,7,8,9,10-hexahydro-, fumarate 100149-95-9, Cyclohept[b]indole, 5-[2-(dimethylamino)propyl]-5,6,7,8,9,10-hexahydro-, hydrochloride 101058-93-9, 5H-Cyclooct[b]indole, 5-[2-(dimethylamino)propyl]-6,7,8,9,10,11-hexahydro-, fumarate 106844-04-6, 5H-Cyclooct[b]indole, 5-[2-(diethylamino)ethyl]-6,7,8,9,10,11-hexahydro-, fumarate (prepn. of)

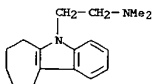
RN 17901-75-6 CAPLUS

CN Cyclohept[b]indole, 5-[2-(diethylamino)ethyl]-5,6,7,8,9,10-hexahydro-,
monomethiodide (8CI) (CA INDEX NAME)

CM 1

CRN 47143-29-3
CMF C19 H28 N2

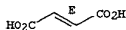
CRN 17901-83-6
CMF C17 H24 N2



CM 2

CRN 110-17-8
CMF C4 H4 O4

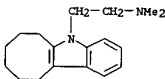
Double bond geometry as shown.



RN 17929-96-3 CAPLUS
CN 5H-Cyclooct[b]indole, 5-[2-(dimethylamino)ethyl]-6,7,8,9,10,11-hexahydro-,
fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1

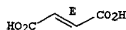
CRN 17993-66-7
CMF C18 H26 N2



CM 2

CRN 110-17-8
CMF C4 H4 O4

Double bond geometry as shown.

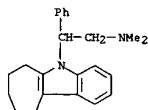


L13 ANSWER 95 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 17929-99-6 CAPLUS
CN Cyclohept[b]indole,
5-[.alpha.-(dimethylamino)methyl]benzyl]-5,6,7,8,9,10-
hexahydro-, fumarate (1:1) (8CI) (CA INDEX NAME)

CM 1

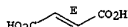
CRN 17993-67-8
CHF C23 H28 N2



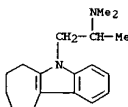
CM 2

CRN 110-17-8
CHF C4 H4 O4

Double bond geometry as shown.



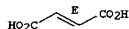
RN 100149-95-9 CAPLUS
CN Cyclohept[b]indole,
5-[2-(dimethylamino)propyl]-5,6,7,8,9,10-hexahydro-,
hydrochloride (7CI) (CA INDEX NAME)



•X HCl

RN 101058-93-9 CAPLUS
CN 5H-Cyclooct[b]indole,
5-[2-(dimethylamino)propyl]-6,7,8,9,10,11-hexahydro-

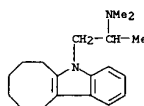
L13 ANSWER 95 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



L13 ANSWER 95 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
, fumarate (7CI) (CA INDEX NAME)

CM 1

CRN 101058-92-8
CHF C19 H28 N2



CM 2

CRN 110-17-8
CHF C4 H4 O4

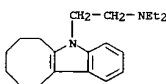
Double bond geometry as shown.



RN 106844-04-6 CAPLUS
CN 5H-Cyclooct[b]indole,
5-[2-(diethylamino)ethyl]-6,7,8,9,10,11-hexahydro-,
fumarate (7CI) (CA INDEX NAME)

CM 1

CRN 106844-03-5
CHF C20 H30 N2



CM 2

CRN 110-17-8
CHF C4 H4 O4

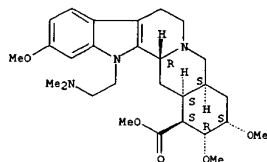
Double bond geometry as shown.

L13 ANSWER 96 OF 99 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1964:31203 CAPLUS
DOCUMENT NUMBER: 60:31203
ORIGINAL REFERENCE NO.: 60:5576g-h,5577a-c
TITLE: Reserpine analogs. I. Synthesis of
N-dialkylaminoalkyl
derivatives of methyl 18-epireserpate
AUTHOR(S): Bombardelli, E.; Bonati, A.
CORPORATE SOURCE: Lab. Ric. Inverni Della Beffa S.p.A, Milan
SOURCE: Boll. Chim. Farm. (1963), 102(10), 703-8
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB A stirred soln. of 4.28 g. I (R = H) and 1.38 g. Me2NCH2CH2Cl in 200
ml.
dioxane was boiled, and during 1 hr. 0.64 g. NaH suspended in oil
(50%)
was added. After being refluxed 2 addnl. hrs., the soln. was concd.
and
extd. with CHCl3 and the ext. washed with satd. aq. NaCl, dried, and
evapd. to give 3.8 g. I (R = Me2NCH2CH2), m. 195-7.degree.
[.alpha.]20D
-50.degree.; dipicrate m. 150-2.degree., dimethiodide m.
214-17.degree..
To 75 ml. liquid NH3 was added 0.5 g. KOMe. The mixt. was kept at
-45.degree. for 20 min., then 4.26 g. I (R = H) was added and the
mixt.
shaken for 10 min. followed by the addn. of 1.75 g. of
iso-PrMeNCH2CH2Cl
in 15 ml. of dry Et2O. After being shaken at -45.degree. to
-40.degree.
for 3 hrs., the soln. was allowed to evap. and the residue dissolved
in
Et2O, washed with H2O, and evapd. to give 2.7 g. I (R =
iso-PrMeNCH2CH2),
m. 166-8.degree. [.alpha.]20D -60.degree.; dipicrate m. 152-4.degree.;
dimethiodide m. 212-15.degree.. When 3.15 g. Me 18-O-(p-
bromophenylsulfonyl)reserpate and 0.95 g. Et2NCH2CH2Cl (II) in 200 ml.
dioxane was boiled, and then 0.320 g. NaH suspended in oil (50%) added
slowly, and the mixt. refluxed 2 hrs., the reaction was still not
complete. An addnl. 0.8 g. II and 0.15 g. NaH in oil were added. The
filtered soln. was concd. to give 3.8 g. Me
1-diethylaminoethyl-18-O-(p-
bromophenylsulfonyl)reserpate, m. 180-2.degree., [.alpha.]20D
-85.degree..
A soln. of 1.2 g. of this and 0.5 ml. Et3N in 300 ml. EtOH was heated
20
hrs. in a sealed tube at 100.degree.. The soln. was evapd., and the
residue extd. with CHCl3 and washed with NaHCO3 to give I (R =
Et2NCH2CH2), m. 155-8.degree., [.alpha.]20D -57.5.degree.; dipicrate
m.
123-6.degree.; dimethiodide m. 192-4.degree.. The following I were
prepd.
(R, m.p., [.alpha.]20D, m.p. dipicrate, and m.p. dimethiodide given):
iso-Pr2NCH2CH2, 125-7.degree., -70.degree., 143-6.degree.,
203-5.degree.;
Me2N(CH2)3, 188-93.degree., -52.5.degree., 128-30.degree.,
204-5.degree.;

L13 ANSWER 96 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 .beta.-piperidinoethyl, 166-8.degree., -47.5.degree., 138-40.degree.,
 202-5.degree., .beta.-morpholinoethyl, 158-60.degree., -54.3,
 135-7.degree., 206-8.degree.. All rotations were in CHCl3 at c = 1.
 IT 16617-17-7, 18-Epireserpic acid, 1-[2-(dimethylamino)ethyl]-O-
 methyl-, methyl ester 16617-19-9, 18-Epireserpic acid,
 1-[2-(diethylamino)ethyl]-O-methyl-, methyl ester 16617-27-9,
 18-Epireserpic acid, 1-[2-(diisopropylamino)ethyl]-O-methyl-, methyl
 ester
 104268-45-3, 18-Epireserpic acid, 1-[2-(dimethylamino)ethyl]-O-
 methyl-, methyl ester, dimethiodide 105342-24-3, 18-Epireserpic
 acid, 1-[2-(diethylamino)ethyl]-O-methyl-, methyl ester, dimethiodide
 106065-35-4, 18-Epireserpic acid, 1-[2-(diisopropylamino)ethyl]-O-
 methyl-, methyl ester, dimethiodide 106170-36-9, 18-Epireserpic
 acid, 1-[2-(diethylamino)ethyl]-O-methyl-, methyl ester, dipicrate
 106278-92-6, 18-Epireserpic acid, 1-[2-(dimethylamino)ethyl]-O-
 methyl-, methyl ester, dipicrate 107589-89-9, 18-Epireserpic
 acid, 1-[2-(diisopropylamino)ethyl]-O-methyl-, methyl ester,
 dipicrate
 (prepn. of)
 RN 16617-17-7 CAPLUS
 CN 3.beta.,20.alpha.-Yohimban-16.beta.-carboxylic acid, 1-[2-
 (dimethylamino)ethyl]-11,17.alpha.,18.alpha.-trimethoxy-, methyl
 ester
 (8CI) (CA INDEX NAME)

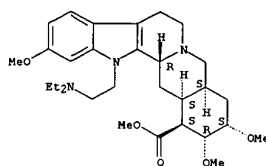
Absolute stereochemistry.



RN 16617-19-9 CAPLUS
 CN 3.beta.,20.alpha.-Yohimban-16.beta.-carboxylic acid, 1-[2-
 (diethylamino)ethyl]-11,17.alpha.,18.alpha.-trimethoxy-, methyl ester
 (8CI) (CA INDEX NAME)

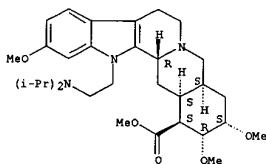
Absolute stereochemistry.

L13 ANSWER 96 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 16617-27-9 CAPLUS
 CN 3.beta.,20.alpha.-Yohimban-16.beta.-carboxylic acid, 1-[2-
 (diisopropylamino)ethyl]-11,17.alpha.,18.alpha.-trimethoxy-, methyl
 ester
 (8CI) (CA INDEX NAME)

Absolute stereochemistry.



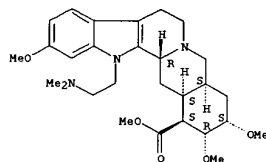
RN 104268-45-3 CAPLUS
 CN 18-Epireserpic acid, 1-[2-(dimethylamino)ethyl]-O-methyl-, methyl
 ester,
 dimethiodide (7CI) (CA INDEX NAME)

CH 1

CRN 16617-17-7
 CMF C28 H41 N3 O5

Absolute stereochemistry.

L13 ANSWER 96 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



CH 2

CRN 74-88-4
 CMF C H3 I

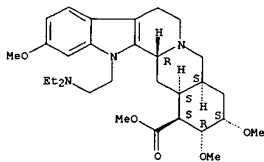
H3C-I

RN 105342-24-3 CAPLUS
 CN 18-Epireserpic acid, 1-[2-(diethylamino)ethyl]-O-methyl-, methyl
 ester,
 dimethiodide (7CI) (CA INDEX NAME)

CH 1

CRN 16617-19-9
 CMF C30 H45 N3 O5

Absolute stereochemistry.



CH 2

CRN 74-88-4
 CMF C H3 I

L13 ANSWER 96 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

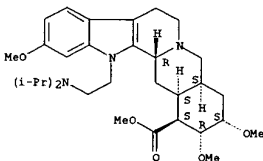
H3C-I

RN 106065-35-4 CAPLUS
 CN 18-Epireserpic acid, 1-[2-(diisopropylamino)ethyl]-O-methyl-, methyl
 ester, dimethiodide (7CI) (CA INDEX NAME)

CH 1

CRN 16617-27-9
 CMF C32 H49 N3 O5

Absolute stereochemistry.



CH 2

CRN 74-88-4
 CMF C H3 I

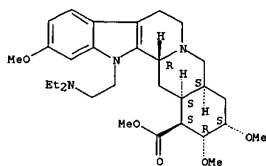
H3C-I

RN 106170-36-9 CAPLUS
 CN 18-Epireserpic acid, 1-[2-(diethylamino)ethyl]-O-methyl-, methyl
 ester,
 dipicrate (7CI) (CA INDEX NAME)

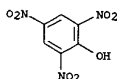
CH 1

CRN 16617-19-9
 CMF C30 H45 N3 O5

Absolute stereochemistry.



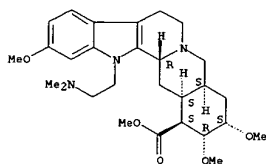
CM 2
CRN 88-89-1
CMF C6 H3 N3 O7



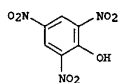
RN 106278-92-6 CAPLUS
CN 16-Epireserpic acid, 1-[2-(dimethylamino)ethyl]-O-methyl-, methyl ester, dipicrate (7C1) (CA INDEX NAME)

CM 1
CRN 16617-17-7
CMF C28 H41 N3 O5

Absolute stereochemistry.



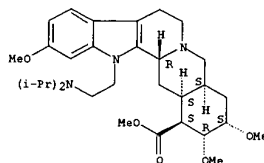
CM 2
CRN 88-89-1
CMF C6 H3 N3 O7



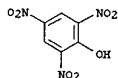
RN 107989-89-9 CAPLUS
CN 16-Epireserpic acid, 1-[2-(diisopropylamino)ethyl]-O-methyl-, methyl ester, dipicrate (7C1) (CA INDEX NAME)

CM 1
CRN 16617-27-9
CMF C32 H49 N3 O5

Absolute stereochemistry.



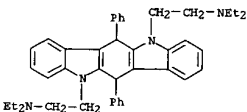
CM 2
CRN 88-89-1
CMF C6 H3 N3 O7



L13 ANSWER 97 OF 99 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1963:415594 CAPLUS
DOCUMENT NUMBER: 59:185594
ORIGINAL REFERENCE NO.: 59:2809f-h, 2810a-b
TITLE: Synthesis of indole derivatives by substitution in the .alpha.-position
AUTHOR(S): Keberle, H.; Hoffmann, K.
CORPORATE SOURCE: CIBA S.A., Basel, Switz.
SOURCE: Gazz. Chim. Ital. (1963), 93, 238-43
DOCUMENT TYPE: Journal
LANGUAGE: French
GI For diagram(s), see printed CA Issue.
AB The .alpha.-Li derivs. of N-alkylindoles are very reactive and readily accessible and allow the synthesis of various .alpha.-substituted indole derivs. The .alpha.-Li deriv. of 1-methylindole (I) with AcCH2NMe2 yielded the 2-[Et2NCH2CMe(OH)] deriv. of I, which treated with aq. CH2O and Et2NH gave the 2-[Et2NCH2CMe(OH)] deriv. (II) of gramine. II.MeI heated to 100.degree. lost Me3N with the formation of III, which heated at 220.degree. was aromatized with the loss of H2O and C2H6. The 2-CHO derivs. of N-alkylindoles exhibit a very pronounced aromatic character; they yield with monosubstituted hydrazines in good yields the corresponding hydrazones which by catalytic hydrogenation yielded the 2-hydrazinomethyl derivs.; these reacted with aq. CH2O and aliphatic and aromatic aldehydes to yield by cyclization the corresponding IV. The NH group of IV can be acylated, and the resulting N-acyl derivs. be reduced with LiAlH4 to the corresponding N-alkyl derivs. Thus, IV (R, R' = Me, R'' = H) was obtained from 1-methyl-2-indolecarboxaldehyde (V) with MeNHNH2, hydrogenation of the hydrazone, and condensation with aq. CH2O. Similarly were prepd. VI (R, R''' = Me, R' = Et, R'' = iso-Pr) and VII (R = Me, R' = PhCH2, R'' = iso-Pr, R''' = Ph). V with H2NCH2CO2Et gave the corresponding Schiff base which was hydrogenated to the 2-EtO2CCH2NHCH2 analog of V; this acetylated with Ac2O and saponified with KOH gave the 2-HO2CCH2NACCH2 analog (VII) of V. VII in dioxane heated 10 min. at 115.degree. with Ac2O and NaOAc yielded 90% N-acetyl-.gamma.-oxotetrahydro-.beta.-carboline (VIII) and some .beta.-Ac deriv. of VIII. VII heated 6 hrs. with AcCl at 40.degree. yielded IX (R = Ac). VIII reduced with NaBH4, and the resulting alc. (X) heated at elevated temp. yielded N-methyl-.beta.-carboline. The hydrolysis of VIII yielded the deacetylated compd., the HCl salt of which aromatized upon heating. 1-Diethylaminoethyl-2-indolecarboxaldehyde (XI) with PhMgBr yielded the 2-PhCH(OH) analog (XII) of XI. XII.HCl is rather unstable and gave with

L13 ANSWER 97 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
the elimination of 2 moles H₂O by dimerization XIII, which
hydrogenated

IT 106424-54-8, Indolo[3,2-b]carbazole, 5,11-bis[2-
(diethylamino)ethyl]-5,6,11,12-tetrahydro-6,12-diphenyl-
(prepn. of)
RN 106424-54-8 CAPLUS
CN Indolo[3,2-b]carbazole, 5,11-bis[2-(diethylamino)ethyl]-5,6,11,12-
tetrahydro-6,12-diphenyl- (7CI) (CA INDEX NAME)



L13 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
(from 3-chloro-7-methoxythianaphtheno[3,2-b]indole, m. above
300.degree.);
3-chloro-7-methoxy-10-(2-dimethylaminopropyl) analog (free base), m.
174-6.degree. (the HCl salt m. 282-5.degree.) (made from
3-chloro-7-ethoxythianaphtheno[3,2-b]indole, m. 295-300.degree.); the
3-chloro-7-ethoxy-10-(3-dimethylaminopropyl) analog HCl salt, m.
292-4.degree.; the 7-chloro-10-(2-piperidinoethyl) analog, m.
273-8.degree.; the 7-chloro-10-(2-morpholinoethyl) analog, m.
288-92.degree.; the methochloride of the 7-chloro-10-(2-dimethyl-
aminopropyl) analog (free base), m. 247-50.degree.; the
10-(2-dimethylaminopropyl) analog HCl salt, m. 202-6.degree.; the
7-chloro-9-methyl-10-(2-dimethylaminopropyl) analog, m. 252-5.degree.
(from 7-chloro-9-methylthianaphtheno[3,2-b]indole, m.
168-72.degree.); the
3,7-dimethoxy-10-(2-dimethylaminopropyl) analog, m. 244-6.degree.
(from
3,7-dimethoxythianaphtheno[3,2-b]indole, m. 253-5.degree.); the free
base
(m. 105-8.degree.) of 7-chloro-10-(2-dimethylaminopropyl) analog (the
methanesulfonate m. 162-3.degree.; tartrate softens at 75.degree.;
sulfate m. 197-8.degree.); the 7-chloro-3-methoxy-10-(2-
dimethylaminopropyl) analog, m. 225-9.degree. (from 7-chloro-3-
methoxythianaphtheno[3,2-b]indole, m. 232-4.degree.); the
3-nitro-10-(2diethylaminoethyl) analog, m. 258-9.degree. (the free
base m.
8890.degree.); the 10-(2-diethylaminoethyl) analog, m. 191-3.degree.
; the
3-chloro-10-(2-dimethylaminopropyl) analog, m. 245.degree. (decompn.)
(front 3-chlorothianaphtheno[3,2-b]indole, m. 281-3.degree.); the
8-chloro-10-(2-dimethylaminopropyl) analog, m. 255 6.degree.
(decompn.);
the 6-chloro-10-(2-dimethylaminopropyl) analog, m. 256-9.degree.;
the
6-chloro-10-(3-dimethylaminopropyl) analog, m. 172-6.degree.; the
8-methyl-10-(2-dimethylaminopropyl) analog, m. 204-5.degree.; the
10-[3-(N-cyclopentyl-N-methylamino)propyl] analog, m. 200-4.degree.
; the
7-chloro-10-(2-ethylaminoethyl) analog, m. 310-14.degree.; the
7-methoxy-10-(2-piperidinoethyl) analog, m. 258-61.degree.; the
7-bromo-10-(2-dimethylaminopropyl) analog, m. 257-8.degree.
(decompn.)
(from 6-bromo-3-hydroxythianaphthene, m. 158-60.degree.,
7-bromothianaphtheno[3,2-b]indole, m. 280-2.degree.); the
2,7-dichloro-10-(2-dimethylaminopropyl) analog, m. 267-70.degree.
(from
2,7-dichlorothianaphtheno[3,2-b]indole, m. 237-9.degree.); the
2-chloro-10-(2-dimethylaminopropyl) analog, m. 182-4.degree.; the
2-chloro-10-(3-dimethylaminopropyl) analog, m. 261-3.degree.; the
2-chloro-10-(2-piperidinoethyl) analog, m. 264-6.degree.; the
4-chloro-10-(2-dimethylaminopropyl) analog, m. 225-7.degree.; the
4-chloro-10-(2-piperidinoethyl) analog, m. 284-6.degree. (from
4-chlorothianaphthene, m. 164-6.degree.); the
8-bromo-10-(2-dimethylaminopropyl) analog, m. 260-2.degree. (from
8-bromothianaphtheno[3,2-b]indole, m. 223-5.degree.); the
8-fluoro-10-(2-dimethylaminopropyl) analog, m. 255-7.degree. (from
p-fluorophenylthioglycolic acid, m. 62-4.degree. and 8-

L13 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1962:442865 CAPLUS
DOCUMENT NUMBER: 57:42865
ORIGINAL REFERENCE NO.: 57:8580f-1,8581a-1
TITLE: Thianaphtheno[3,2-b]indoles
INVENTOR(S): Werner, Lincoln H.
PATENT ASSIGNEE(S): Ciba Pharmaceutical Products, Inc.
SOURCE: 10 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
PATENT INFORMATION:

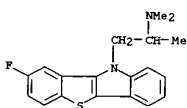
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 3024248		19620306	US	19560918
GI	For diagram(s), see printed CA issue.				
AB	The patent is concerned with 10-RX-thianaphtheno[3,2-b]indoles having				
a	nucleus of the formula I, wherein X is a lower hydrocarbon and R is an amino group, and also with the salts and quaternary ammonium compds.				
The	compds. are antihistaminics and also have anesthetic and antifungal effects. The compds. may be prepd. by the reaction of a				
10-unsubstituted	thianaphtheno[3,2-b]indole with an amino(lower alkyl) chloride. For example, 7-chlorothianaphtheno[3,2-b]indole (5.16 g.) is suspended in				
30	ml. toluene. Sodamide (0.8 g.) is added and the mixt. is stirred with refluxing 4 hrs. A soln. of 2.72 g. 2-diethylaminoethyl chloride in toluene is added and stirring and refluxing continued 3 more hrs. The mixt. is cooled to room temp. and filtered. The filtrate is evapd. to dryness, the oily residue is dissolved in ethyl acetate and treated				
with	anhyd. HCl to ppt. the hydrochloride of 7-chloro-10-(2-diethylaminoethyl)thianaphtheno[3,2-b]indole, m. 213-15.degree. (iso-PrOH). The starting material,				
7-chlorothianaphtheno[3,2-b]indole, m.	269-70.degree., is obtained as follows: 27 g 6-chloro-3-				
	hydroxythianaphthene is dissolved in 100 ml. glacial acetic acid. Phenyl-hydrazine (16 g.) is added slowly with stirring at 80.degree.. Heating is continued 30 min. The product seps. The mixt. is cooled				
and	the product filtered off. Also prepd. were 7-chloro-10-(2-dimethylaminopropyl)thianaphtheno[3,2-b]indole-HCl, m. 262-4.degree.;				
	the 7-chloro-10-(2-dimethylaminoethyl) analog, m. above 275.degree.;				
the	7-chloro-10-(3-diethylaminopropyl) analog, m. 185-7.degree.; the 7-chloro-10-(2-pyrrolidinoethyl) analog, m. above 300.degree.; the 7-methoxy-10-(2-dimethylaminopropyl) analog, m. 272-4.degree. (starting from 7-methoxythianaphtheno[3,2-b]indole, m. 275-7.degree.); the 7-ethoxy-10-(2-dimethylaminopropyl) analog, m. 295-7.degree.; the 3,7-dichloro-10-(3-dimethylaminopropyl) analog, m. above 275.degree. (from				
	3,7-dichlorothianaphtheno[3,2-b]indole, m. 260-2.degree.); the 3-chloro-7-methoxy-10-(2-dimethylaminopropyl) analog, m. 270-2.degree.				

L13 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
fluorothianaphtheno[3,2-b]indole, m. 239-41.degree.; the 7,8-dichloro-10-(2-dimethylaminopropyl) analog, m. 267-9.degree. (from 3,4-dichlorophenylthioglycolic acid, m. 25 76-8.degree.,
acid, m. 71-2.degree., 7,8-dichlorothianaphtheno[3,2-b]indole, m. 247-9.degree.); the d-tartrate of 7-methoxy-10-(5-diethylamino-2-pentyl)thianaphtheno[3,2-b]indole, which liquifies at 80-5.degree.
(from
N'-phenyl-N'-(5-diethylamino-2-pentyl)hydrazine, b1 135-42.degree.;
the
3-amino-10-(2diethylaminoethyl) analog HCl salt, m. 214.degree. (decompn.); the 7-fluoro-10-(2-dimethylaminopropyl) analog, m. 267-71.degree. (decompn.) (front m-fluorophenylthioglycolic acid, m. 75-7.degree., 6-fluoro-3-hydroxythianaphthene, m. 92-5.degree., 7-fluorothianaphtheno[3,2-b]indole, m. 261-4.degree.); the tartrate of 7-methoxy-10-(6-piperidinoethyl)thianaphtheno[3,2-b]indole, m. 81-5.degree.; the 10-(3-dimethylaminopropyl) analog HCl salt, m. 189-90.degree.; the 9-chloro-10-(2-dimethylaminopropyl) analog, m. 252-5.degree. (from 9-chlorothianaphtheno[3,2-b]indole, m. 124-8.degree.); the 8,9-dichloro-10-(2-dimethylaminopropyl) analog, m. 272-4.degree. (from 7,8-dichlorothianaphtheno[3,2-b]indole, m. 247-9.degree., and 8,9-dichlorothianaphtheno[3,2-b]indole, m. 188-90.degree.); and the d tartrate of 8-methyl-10-(2-dimethylaminopropyl)thianaphtheno[3,2-b]indole, m. 115.degree. (decompn.).
IT 437-65-0, 10H-[1]Benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-8-fluoro-, hydrochloride 437-66-1, 10H-[1]Benzothieno[3,2-b]indole-, hydrochloride 98439-05-5, 10H-[1]Benzothieno[3,2-b]indole, 7-chloro-10-[2-(ethylamino)ethyl]-, hydrochloride 98439-06-6, 10H-[1]Benzothieno[3,2-b]indole, hydrochloride 98783-33-6, 10H-[1]Benzothieno[3,2-b]indole, 8-bromo-10-[2-(dimethylamino)propyl]-, hydrochloride 98783-34-7, 10H-[1]Benzothieno[3,2-b]indole, 7-bromo-10-[2-(dimethylamino)propyl]-, hydrochloride 98862-13-6, 10H-[1]Benzothieno[3,2-b]indole, 8,9-dichloro-10-[2-(dimethylamino)propyl]-, hydrochloride 98883-46-6, 10H-[1]Benzothieno[3,2-b]indole, 4-chloro-10-[2-(dimethylamino)propyl]-, hydrochloride 98883-47-7, 10H-[1]Benzothieno[3,2-b]indole, hydrochloride 98883-52-4, 10H-[1]Benzothieno[3,2-b]indole, 7-chloro-10-[2-(dimethylamino)propyl]- 98883-51-3, 10H-[1]Benzothieno[3,2-b]indole, 8-chloro-10-[2-(dimethylamino)propyl]-, hydrochloride 98883-52-4, 10H-[1]Benzothieno[3,2-b]indole, 9-chloro-10-[2-(dimethylamino)propyl]-, hydrochloride 98999-60-1, 10H-[1]Benzothieno[3,2-b]indole, 2-chloro-10-[2-(dimethylamino)propyl]-, hydrochloride 98999-62-3, 10H-[1]Benzothieno[3,2-b]indole, 3-chloro-10-[2-(dimethylamino)propyl]-, hydrochloride 98750-74-0, 10H-[1]Benzothieno[3,2-b]indole, 7-chloro-10-[2-(dimethylamino)propyl]-3-

L13 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

methyl-, hydrochloride **99750-75-1**, 10H-[1]Benzothieno[3,2-b]indole, 7-chloro-10-[2-(diethylamino)ethyl]-, hydrochloride **99886-37-0**, 10H-[1]Benzothieno[3,2-b]indole, 7-chloro-10-[2-(dimethylamino)propyl]-, methanesulfonate **99889-28-5**, 10H-[1]Benzothieno[3,2-b]indole, 3-chloro-10-[2-(dimethylamino)propyl]-7-ethoxy-, hydrochloride **99889-26-6**, 10H-[1]Benzothieno[3,2-b]indole, 3-chloro-10-[2-(dimethylamino)propyl]-7-ethoxy-**99905-66-5**, 10H-[1]Benzothieno[3,2-b]indole, 7-chloro-10-[2-(dimethylamino)propyl]-3-methoxy-, hydrochloride **99997-72-8**, 10H-[1]Benzothieno[3,2-b]indole, 10-[2-(diethylamino)ethyl]-, hydrochloride **100000-74-6**, 10H-[1]Benzothieno[3,2-b]indole, 10-[2-(diethylamino)ethyl]-3-nitro-, hydrochloride **100000-75-7**, 10H-[1]Benzothieno[3,2-b]indole, 10-[2-(diethylamino)ethyl]-3-nitro-**100000-76-8**, 10H-[1]Benzothieno[3,2-b]indole, 3-chloro-10-[2-(dimethylamino)propyl]-7-methoxy- **100022-21-7**, 10H-[1]Benzothieno[3,2-b]indole, 3-chloro-10-[2-(dimethylamino)propyl]-7-methoxy-, hydrochloride **100195-01-3**, 10H-[1]Benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-7-ethoxy-, hydrochloride **100195-12-8**, 10H-[1]Benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-3,7-dimethoxy-, hydrochloride **101762-96-3**, 10H-[1]Benzothieno[3,2-b]indole, 3-amino-10-[2-(diethylamino)ethyl]-, dihydrochloride **101942-65-8**, 10H-[1]Benzothieno[3,2-b]indole, 7,8-dichloro-10-[2-(dimethylamino)propyl]-, hydrochloride **106480-41-5**, 10H-[1]Benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-7-methoxy-, hydrochloride **106785-31-3**, 10H-[1]Benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-, hydrochloride (prepn. of)

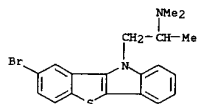
RN 437-65-0 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole-10-ethanamine, 8-fluoro-N,N,.alpha.-trimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

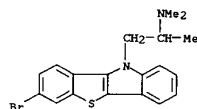
RN 437-66-1 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole-10-ethanamine, 7-fluoro-N,N,.alpha.-trimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



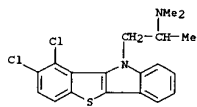
●x HCl

RN 98783-34-7 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 7-bromo-10-[2-(dimethylamino)propyl]-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



●x HCl

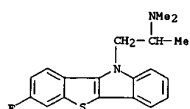
RN 98862-13-6 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 8,9-dichloro-10-[2-(dimethylamino)propyl]-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



●x HCl

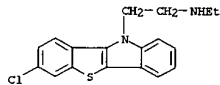
RN 98883-46-6 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 4-chloro-10-[2-(dimethylamino)propyl]-,

L13 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



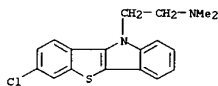
● HCl

RN 98439-05-5 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 7-chloro-10-[2-(ethylamino)ethyl]-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



●x HCl

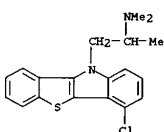
RN 98439-06-6 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 7-chloro-10-[2-(dimethylamino)ethyl]-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



●x HCl

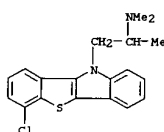
RN 98783-33-6 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 8-bromo-10-[2-(dimethylamino)propyl]-, hydrochloride (6CI, 7CI) (CA INDEX NAME)

L13 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



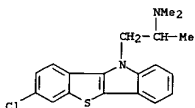
●x HCl

RN 98883-47-7 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 6-chloro-10-[2-(dimethylamino)propyl]-, hydrochloride (7CI) (CA INDEX NAME)



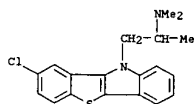
●x HCl

RN 98883-49-9 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 7-chloro-10-[2-(dimethylamino)propyl]-, (7CI) (CA INDEX NAME)



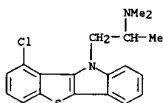
L13 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 98883-51-3 CAPLUS
CN 10H-[1]Benzo[thieno[3,2-b]indole,
8-chloro-10-[2-(dimethylamino)propyl]-,
hydrochloride (7CI) (CA INDEX NAME)



●x HCl

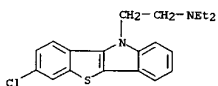
RN 98883-52-4 CAPLUS
CN 10H-[1]Benzo[thieno[3,2-b]indole,
9-chloro-10-[2-(dimethylamino)propyl]-,
hydrochloride (7CI) (CA INDEX NAME)



●x HCl

RN 98999-60-1 CAPLUS
CN 10H-[1]Benzo[thieno[3,2-b]indole,
2-chloro-10-[2-(dimethylamino)propyl]-,
hydrochloride (7CI) (CA INDEX NAME)

L13 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
CN 10H-[1]Benzo[thieno[3,2-b]indole,
7-chloro-10-[2-(diethylamino)ethyl]-,
hydrochloride (6CI, 7CI) (CA INDEX NAME)

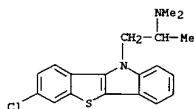


●x HCl

RN 99886-37-0 CAPLUS
CN 10H-[1]Benzo[thieno[3,2-b]indole,
7-chloro-10-[2-(dimethylamino)propyl]-,
methanesulfonate (6CI, 7CI) (CA INDEX NAME)

CM 1

CRN 98883-49-9
CMF C19 H19 Cl N2 S



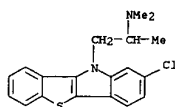
CM 2

CRN 75-75-2
CMF C H4 O3 S



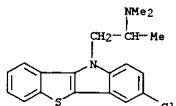
RN 99889-25-5 CAPLUS
CN 10H-[1]Benzo[thieno[3,2-b]indole,
3-chloro-10-[2-(dimethylamino)propyl]-7-
ethoxy-, hydrochloride (7CI) (CA INDEX NAME)

L13 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



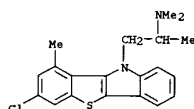
●x HCl

RN 98999-62-3 CAPLUS
CN 10H-[1]Benzo[thieno[3,2-b]indole,
3-chloro-10-[2-(dimethylamino)propyl]-,
hydrochloride (7CI) (CA INDEX NAME)



●x HCl

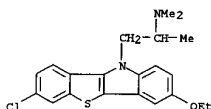
RN 99750-74-0 CAPLUS
CN 10H-[1]Benzo[thieno[3,2-b]indole,
7-chloro-10-[2-(dimethylamino)propyl]-9-
methyl-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



●x HCl

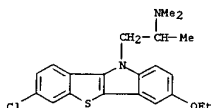
RN 99750-75-1 CAPLUS

L13 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

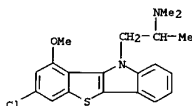


●x HCl

RN 99889-26-6 CAPLUS
CN 10H-[1]Benzo[thieno[3,2-b]indole,
3-chloro-10-[2-(dimethylamino)propyl]-7-
ethoxy-, hydrochloride (7CI) (CA INDEX NAME)

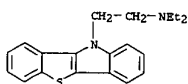


RN 99905-66-5 CAPLUS
CN 10H-[1]Benzo[thieno[3,2-b]indole,
7-chloro-10-[2-(dimethylamino)propyl]-3-
methoxy-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



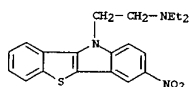
●x HCl

RN 99997-72-5 CAPLUS
CN 10H-[1]Benzo[thieno[3,2-b]indole, 10-[2-(diethylamino)ethyl]-,
hydrochloride (6CI, 7CI) (CA INDEX NAME)



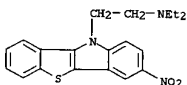
●x HCl

RN 100000-74-6 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 10-[2-(diethylamino)ethyl]-3-nitro-, hydrochloride (6CI, 7CI) (CA INDEX NAME)

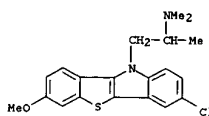


●x HCl

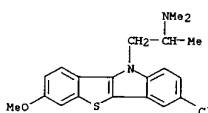
RN 100000-75-7 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 10-[2-(diethylamino)ethyl]-3-nitro-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



RN 100000-76-8 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 3-chloro-10-[2-(dimethylamino)propyl]-7-methoxy-, hydrochloride (6CI, 7CI) (CA INDEX NAME)

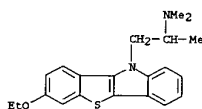


RN 100022-21-7 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 3-chloro-10-[2-(dimethylamino)propyl]-7-methoxy-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



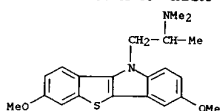
●x HCl

RN 100195-01-5 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-7-ethoxy-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



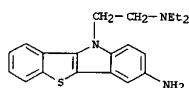
●x HCl

RN 100195-12-9 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-3,7-dimethoxy-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



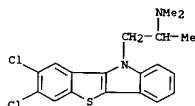
●x HCl

RN 101762-96-3 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 3-amino-10-[2-(diethylamino)ethyl]-, dihydrochloride (6CI, 7CI) (CA INDEX NAME)



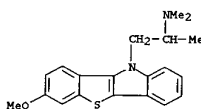
●2 HCl

RN 101942-65-8 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 7,8-dichloro-10-[2-(dimethylamino)propyl]-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



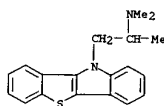
●x HCl

RN 106480-41-5 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-7-methoxy-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



● HCl

RN 106785-31-3 CAPLUS
CN 10H-[1]Benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



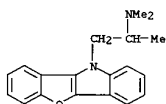
● HCl

L13 ANSWER 99 OF 99 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1962:403967 CAPLUS
 DOCUMENT NUMBER: 57:3967
 ORIGINAL REFERENCE NO.: 57:792h-1,793a-g
 TITLE: Benzofuro[3,2-b]indoles
 AUTHOR(S): Schroeder, D. C.; Corcoran, P. O.; Holden, C. A.; Mulligan, M. C.
 CORPORATE SOURCE: Ciba Pharm. Prods., Inc., Summit, NJ
 SOURCE: J. Org. Chem. (1962), 27, 586-91
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable

AB Several benzofuro[3,2-b]indoles were synthesized and some of the intermediates involved investigated. O-Carboxymethylsalicylic acid (75 g.) refluxed 3.5 hrs. with 71. g. HCl in 520 ml. anhyd. alc. and 117 ml. C6H6 gave Et O-(carboxymethyl)salicylate in 89% yield, b.p. 123-8.degree.. Et bromoacetate (0.03 mole) added to 0.03 mole KOH and the appropriate Et salicylate in anhyd. alc., the mixt. refluxed 12 hrs., cooled, filtered, and the filtrate evapd. gave a solid. This material collected and recrystd. from alc. gave the following substituted Et O-carboxymethylsalicylates (5-substituent, % yield, and m.p. given): Cl, 33, 43-5.degree.; I, 37, 73-5.degree.; NO2, 76, 70-1.degree.; Br, -. The O-carboxymethylsalicylate (0.22 mole) added to 0.22 mole NaOEt in 280 ml. C6H6, the mixt. refluxed 4 hrs., cooled, poured into H2O and dil. NaOH, the layers sepd., the aq. portion treated with dil. HCl gave the product. This material was recrystd. from alc. Three 3(2H)-Benzofuranones were prepd. as follows. The 2-carboxy-3(2H)-benzofuranone (0.1 mole) was suspended in 500 ml. 5% NaOH and left at room temp. until the solid dissolved; this time varied from 1 week to 4 weeks. Dil. H2SO4 was added, the product extd. with C6H6, evapd., and the crude product recrystd. from alc. The following 3(2H)-benzofuranones were thus obtained (5,3,2-substituents, % yield, and m.p. given): H, O, H, 65, 97.degree.; Cl, O, H, 27, 114.5-16.0.degree.; I, O, H, 27, 130-1.degree.; H, O, CO2Et, 70, 60-20.degree.; Cl, O, CO2Et, 55, 126-7.degree.; I, O, CO2Et, 90, 120-2.degree.. Benzofuro[3,2-b]indoles were prepd. by a known method. By limiting the batch size to 10 g. or less, the initial exothermic reaction was controlled when the benzofuranone was warmed with PhNHNH2. Benzofuro[3,2-b]indole was N-alkylated in the same manner as previously described for thianaphtheno[3,2-b]indoles. The following benzofuro[3,2-b]indoles were thus obtained (substituents at 8, 2, and 10

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 positions, % yield, m.p. given): H, H, H, 90, 197-9.degree.; Cl, H, H, 25, 185-7.degree.; H, NO2, H, 4, 255.degree.; H, H, CH2CH2NC2H5O, 76, 109-10.degree.; H, H, CH2CHMeNMe2HCl, 27, 235-6.degree.. Monohydrazides were prepd. in predominance by adding a slight excess of N2H4.H2O to the Et O-(carboxymethyl)salicylate in alc. soln. and leaving 24 hrs. at room temp.; when the amt. of N2H4 was increased to a 2- or 3-fold excess and the time lengthened to 3 days, formation of the dihydrazide was enhanced. In both cases there was a mixt. of products, but these were sepd. by crystn. The following substituted O-(carboxymethyl)salicylic acids were thus obtained (substituents at 1, 2-OCH2COR, and 5-positions, % yield, and m.p. given): OEt, H, NHNH2, 53, 117-19.degree.; OEt, NO2, NNNH2, 25, 153.degree.; OEt, I, NNNH2, 47, 133-5.degree.; NNNH2, H, NNNH2, 30, 164-5.degree.; NNNH2, NO2, NNNH2, 23, 174-6.degree.. Phenylhydrazide of Et O-(carboxymethyl)salicylate was prepd. in the same manner as the hydrazides, except that a reflux period of 3 hrs. was required. Although 2 equivs. of PhNHNH2 was used, only the monophenylhydrazide was isolated in 49% yield, m. 120-1.degree.. The monobenzylamide of 5-bromo-O-(carboxymethyl)salicylic acid was prepd. by the method used for the hydrazides. However, the product was sepd. in a different fashion. After completion of the reaction, H2O was added to ppt. the monoamide in 46% yield, m. 104-5.degree.. The diamide was isolated from the mother liquor in 10% yield, m. 115.degree.. The acylhydrazones were similarly prepd. A slight excess of the aldehyde was added to the hydrazide in alc., the mixt. refluxed 2-3 hrs., cooled, the product collected, and crystd. The following substituted O-(carboxymethyl)salicylic acids were obtained (R of the 1-COR, R2 of the 2-OCH2COR2, and 5-substituent, % yield, and m.p. given): OEt, NO2, NNN:CHC6H4NMe2-p, 40, 179-81.degree.; OEt, NO2, NNN:CHC5H4N-2, 93, 212-13.degree.; OEt, I, NNN:CHC6H6N-4, 77, 21718.degree.. 1-(CCl3CH: NNNCO)-2-(CCl3CH: NNNCOCH2O) C6H4 was obtained in 75% yield, m. 201-2.degree. from the dihydrazide with 31 g. chloral in 70 ml. iso-PrOH by heating 1.5 hrs. and recrystn. of the product from CHCl3-iso-PrOH. The following 3(2H)-benzofuranones were also obtained (5-, 3-, 2-substituents, % yield, and m.p. given): H, O, CON:NPh, 7.5, 180-1.degree.; H, :NNHPh, CO2Et, 60, 126-8.degree.; H, :NNHPh, CON:NPh, 35, 189-90.degree.; H, ONH3NH2+, CO2Et, 74, 137-8.degree.; Cl, :NNHCONH2, CO2Et, 25, 243-4.degree.; H, :NNHPh, H, 48, 168-70.degree.; H, :NNHCSNH2,

L13 ANSWER 99 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)
 H, 85, 176-8.degree.; I, :NNHCSNH2, H, 60, 212-13.degree..
 IT 111637-35-5, 10H-Benzofuro[3,2-b]indole, 10-[2-(dimethylamino)propyl]-, hydrochloride (prepn. of)
 RN 111637-35-5 CAPLUS
 CN 10H-Benzofuro[3,2-b]indole, 10-[2-(dimethylamino)propyl]-, hydrochloride (7CI) (CA INDEX NAME)



● HCl